

Product Guide**C 2122C** 100mm (4") 100V 5W Twin Cone Ceiling Speaker

C 2122C Fast-Fix EWIS Ceiling Speaker

- ✓ Excellent speech intelligibility
- ✓ Engineered to meet Australian Standard AS1670.4
- ✓ High quality speaker driver developed for BGM, paging and emergency warning applications
- ✓ Flip-lock mounting system reduces installation time.
- ✓ Fitted with 4 way wire protect terminal block for loop in, loop out wiring as required by Australian Standards.
- ✓ Fitted with cable restraint plate and transformer safety cover as required by Australian Standards.
- ✓ Fitted with supervisory capacitor for line monitoring.
- ✓ Stylish ABS surround and aluminium mesh grille.
- ✓ 5 year warranty.



Application

The C 2122C is a PA speaker designed for EWIS (fire & evacuation) installations.

Emergency Warning & Intercommunications Systems (EWIS)

This speaker and transformer combination is designed for both paging announcements and emergency tones in EWIS systems.

Speakers employed in an EWIS installation must comply to AS1670.4. This dictates that the speakers must be fitted with transformer safety cover, line monitoring capacitor and 4 way wire protect terminal connection.

The Redback C 2122C EWIS speaker complies to this standard.

About Redback® Speaker Drivers

Each custom designed speaker and transformer combination has been specifically engineered to ensure a wide frequency range and dispersion angle, plus a high sound pressure level (SPL) ensuring excellent music and speech intelligibility; which is critical for emergency paging applications.

Each transformer is fitted with multiple power settings which are user selectable via taps on the transformer. For reference, the transformer safety cover is imprinted with power selection information.

Installation Guidelines

Redback® "Fast-Fix" speaker utilise a time saving flip lock mounting method. It results in a finish with no visible screw heads or caps.

The flip lock tabs slide outwards as the speaker is screwed into the hole, securing the speaker to the ceiling material from the top side. Suitable for use with any 8-33mm ceiling tile, including gyprock, mineral fibre or fixed gyprock ceilings. We recommend a speaker hole of 145mm. This is easily cut using the T 2314 holesaw.

The neutral white RAL colour of C 2122C provides an architecturally unobtrusive finish to virtually any installation.

The transformer is fitted with a 4 way wire protect screw terminal block. This is suitable for loop in, loop out cabling.

Manufacturing & Performance

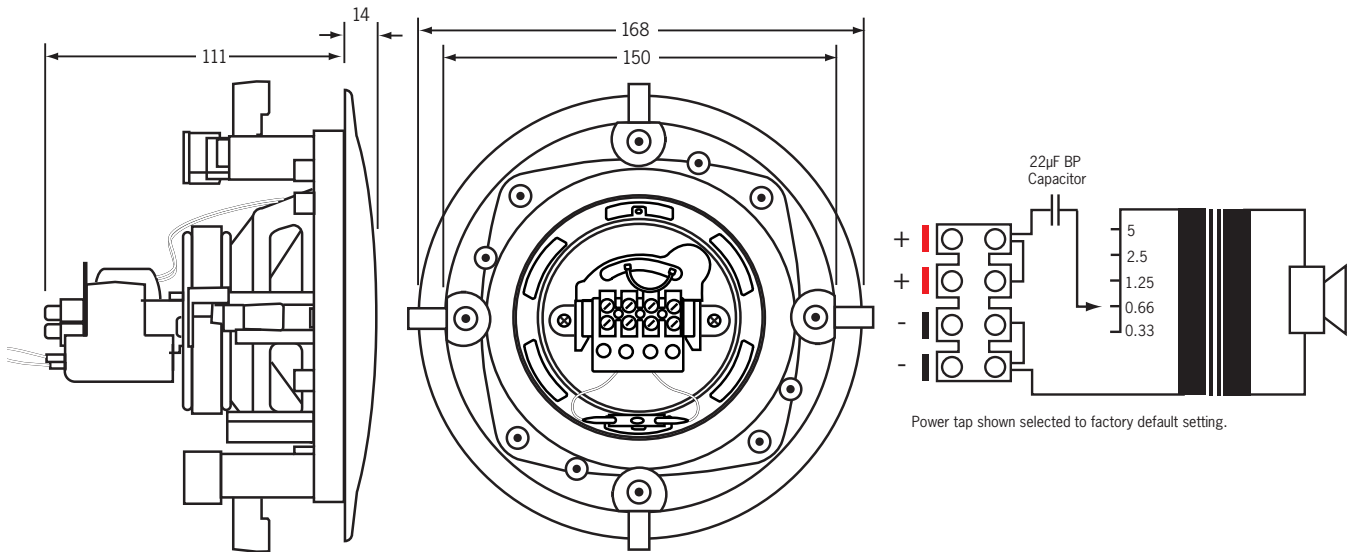
Redback® drivers are engineered and manufactured to stringent specifications ensuring maximum reliability under all operating conditions. Each driver has a power rating well above the max tapping of the transformer, ensuring reliable operation and excellent longevity. A strict quality control procedure is employed during every step of the manufacturing process. Finally, every finished speaker is 100% QC checked prior to shipping.

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Dimensions & Transformer Detail



Power tap shown selected to factory default setting.

Specifications

Electrical

Power taps:	0.33, 0.66, 1.25, 2.5, 5W
SPL 1W @ 1m:	92.6dB @ 1kHz (+/- 2dB)
Frequency response:	100Hz-15kHz
Connection:	4 way terminal block + 22uf bipolar capacitor

Mechanical

Grille material:	ABS surround, aluminium mesh grille
Driver construction:	Paper twin cone
Ceiling cutout:	150mmØ
Grille diameter:	168mmØ
Mounting depth:	78mm (including ceiling tile thickness)
Overall weight:	1.09kg
Colour:	White

Environmental

Operating temperature:	-25°C to +55°C
Relative humidity:	< 95%

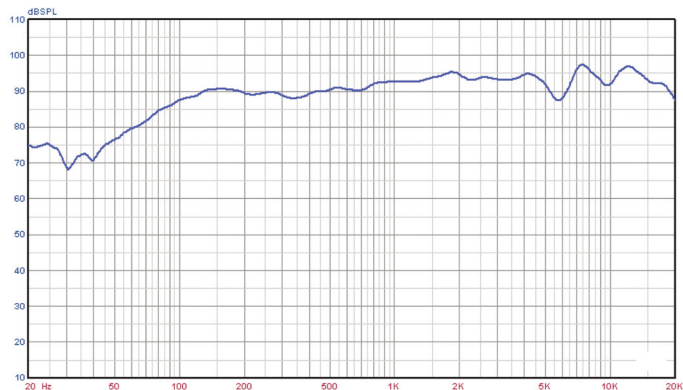
Additional Installation Accessories

T 2314A Adjustable 40-300mm holesaw

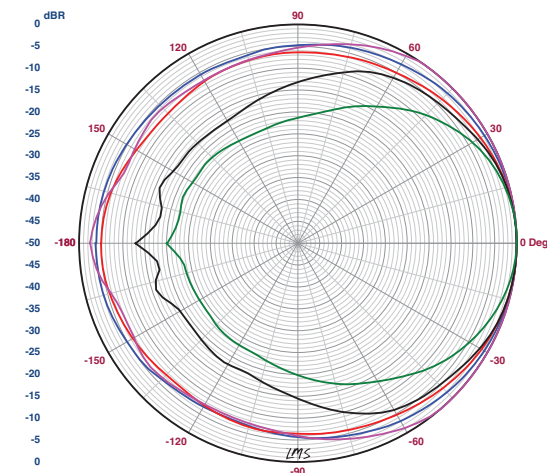
Architect Specifications

The speaker shall be of 100mm diameter and be low profile fitted with a 100V transformer with power taps of 5W, 2.5W, 1.25W, 0.66W and 0.33W. It shall have a SPL of 92.6dB (1W@1m). The transformer shall have a safety cover and cable restraint mechanism (conforming to the relevant Australian standard). It shall be fitted with a 4 way wire protect terminal block for connection and 22uf bipolar capacitor for line monitoring. The speaker shall be attached to a white aluminium grill with ABS surround & flip-lock mounting mechanism. The speaker & grill combination shall be a Redback model C 2122C.

Frequency Response (SPL 1W @ 1m)



Polar Plot (Ratio vs Angle)



	500Hz	1kHz	2kHz	4kHz	6kHz
SPL 1W @ 1m (dB)	90.4	92.6	94.6	94.6	95.7
Beam Width (BW)	273	153	185	116	69
Q-Factor	1.3	2.4	1.9	3.1	5.2
Directivity Index (DI)	1.2	3.7	2.9	4.9	7.2