

Product Guide**C 2127A** 200mm (8") 100V 5W Twin Cone Ceiling Speaker

C 2127A Fast-Fix EWIS Twin Cone 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 supervisory capacitor for line monitoring.
- ✓ Stylish ABS surround and steel mesh grille.
- ✓ 5 year warranty.



Application

The C 2127A 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 2127A EWIS speaker complies to this standard.

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 gyproc, mineral fibre or fixed gyproc ceilings. We recommend a speaker hole of 238mm. This is easily cut using the T 2314 holesaw.

The neutral white RAL colour of C 2127A 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.

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.

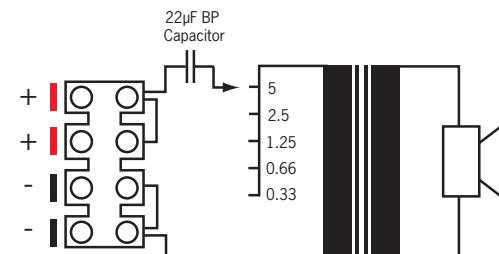
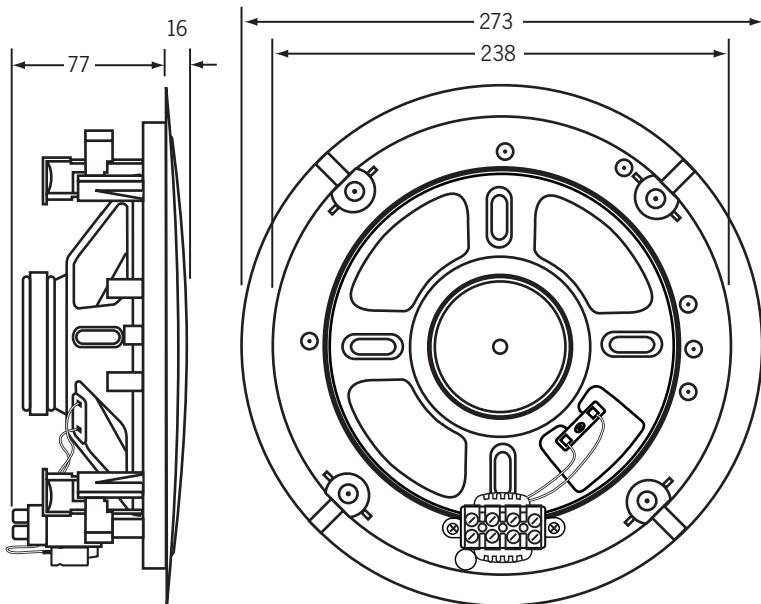
Each transformer is fitted with multiple power settings which are user selectable via taps on the transformer.

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REDBACK®

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: | 86dB @ 1kHz (+/- 2dB) |
| Frequency response: | 100Hz-15kHz |
| Connection: | 4 way terminal block + 22uf bipolar capacitor |

Mechanical

| | |
|----------------------|---|
| Grille material: | ABS surround, steel mesh grille |
| Driver construction: | Paper twin cone |
| Ceiling cutout: | 238mmØ |
| Grille diameter: | 273mmØ |
| Mounting depth: | 77mm (including ceiling tile thickness) |
| Overall weight: | 1.09kg |
| Colour: | White |

Environmental

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

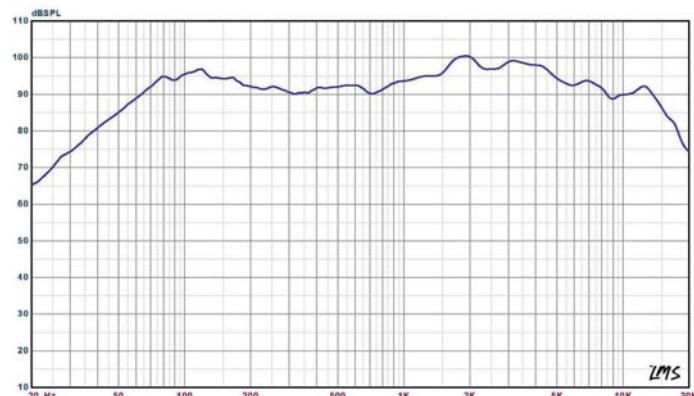
Additional Installation Accessories

T 2314 Adjustable 40-270mm holesaw

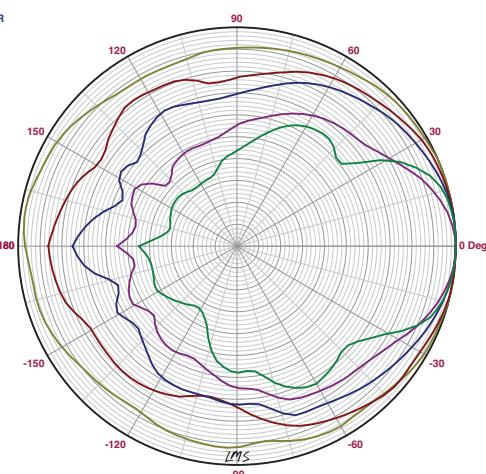
Architectural Specifications

The speaker shall be a twin cone of 200mm diameter and be 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 86dB and frequency response of 100Hz to 15kHz. It shall be fitted with a 4 way wire protect terminal block for cable connection and 22uf bipolar capacitor for line monitoring. The transformer shall have a safety cover and cable restraint mechanism (conforming to the relevant Australian standard). 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 2127A.

Frequency Response (SPL 1W @ 1m)



Polar Plot (Ratio vs Angle)



| | 500Hz | 1kHz | 2kHz | 4kHz | 6kHz |
|------------------------|-------|------|------|------|------|
| Beam Width (BW) | 298 | 127 | 87 | 44 | 47 |
| Q-Factor | 1.2 | 2.8 | 4.1 | 8.3 | 7.6 |
| Directivity Index (DI) | 0.8 | 4.5 | 6.2 | 9.2 | 8.8 |