



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3892	18-Apr-2024	Number 2	Issue date 22-Apr-2024	30-Apr-2025

Product designation

Redback, Model C2270 / C2271, type A, indoor, flush-mount, emergency sound-system loudspeaker

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Altronic Distributors Pty Ltd
174 Roe Street, PERTH, WA, AUSTRALIA, 6000

Registrant

Altronic Distributors Pty Ltd
174 Roe Street, PERTH, WA, AUSTRALIA, 6000

Producer

Altronic Distributors Pty Ltd
174 Roe Street, PERTH, WA, AUSTRALIA, 6000

Conformance criteria and evaluation

The Redback, Model C2270 / C2271, type A, indoor, flush-mount, emergency sound-system loudspeaker has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.24:2018, 'Fire detection and alarm systems - Part 24: Fire alarm loudspeakers'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh
Executive Officer – ActivFire Scheme



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Producer's description

The Redback, Model C2270 / C2271, type A, indoor, flush-mount, emergency sound-system loudspeaker is designed to be flush-mounted into a suspended ceiling to provide emergency warning audible broadcasts.

The Redback Model C2270 / C2271 is fitted with a 100 mm diameter paper cone speaker driver, and is rated for a maximum power output of 6 W when provided with an input signal of 100 Vac. The Redback Model C2270 / C2271 provides five taps on the included transformer for operating at a range of output levels.

The Redback Model C2270 includes a white perforated steel circular front grille, 160 mm in diameter, with a concentric pattern of holes, plus a clip-on rear cover which includes sinuous cable entry for connection to an emergency sound system. The Redback Model C2271 includes a black perforated steel circular front grille. The Redback Model C2270 / C2271 is fitted with three retaining clips.

The Redback Model C2270 / C2271 is a type A loudspeaker intended for indoor applications.

Technical specification

The following details are a representative extract of the technical specification for the Redback, Model C2270 / C2271, type A, indoor, flush-mount, emergency sound-system loudspeaker and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Description	Colour
Type	Ident.		
Model	C2270	Type A, indoor, flush-mount, emergency sound-system loudspeaker with sinuous cable entry and perforated metal circular grille.	White
	C2271		Black

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Rated noise power	6 Watts (100 V line)
Power taps & impedance (100V line)	0.375 W (26.66 k Ω), 0.75 W (13.33 k Ω), 1.5 W (6.66 k Ω), 3 W (3.33 k Ω), 6 W (1.66 k Ω)
Sensitivity	90 dB (1 W @ 1 m), 78 dB (1 W @ 4 m)
Maximum sound pressure level	96 dB (6 W @ 1 m), 84 dB (6 W @ 4 m)
Frequency response	100 Hz – 15 kHz (500 Hz – 4 kHz : \pm 3 dB)
Coverage angle (-6dB)	500 Hz: >180°, 1000 Hz: >180°, 2000 Hz: 160°, 4000 Hz 75°
Environmental	Type A (for indoor applications as per standard)
Speaker component	100 mm (4") paper cone speaker
Mounting hole	\varnothing 140 mm
Mounting method	3 x plastic spring loaded clip
Line monitoring	Yes, 2.2 μ F bipolar capacitor
Applicable cable	2.5 mm ² (14AWG) max conductor area
Connection	4-way pluggable screw terminal
Finish	White (C2270) or black (C2271) ABS grille & chassis (LG ABS181) Clear ABS spring clips (QM PC110) Red ABS transformer dome cover (LG ABS181) Powder coated steel grille insert (RAL9003 white, RAL9004 black)
Dimensions	\varnothing 159 x 65 D mm
Weight	71 0g

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	XF3601/R1a	Evaluation for Conformity of the Redback, Model C2270/1, 6 W, Type A, indoor, flush mount, emergency sound-system loudspeaker to the requirements of AS ISO 7240.24:2018	19-Apr-2024	CSIRO, Fire Systems Laboratory, AU
Datasheet	FINAL REC JW 20-2-2024 C 2270 Datasheet.pdf	Redback® Data Sheet C 2270 100mm (4") 100V 6W Metal Grille Ceiling Speaker White AS ISO7240.24 C 2271 100mm (4") 100V 5W Metal Grille Ceiling Speaker Black AS ISO7240.24 (FINAL REC JW 20-2-2024 C 2270 Datasheet.pdf)	20-Feb-2024	Altronic Distributors Pty Ltd, WA, AU