



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
|-------------------|-------------------|-------------|---------------------------|-------------|
| afp - 3200 | 13-Dec-2017 | Number 1 | Issue date 13-Dec-2017 | 30-Apr-2019 |
| | | | | Page 1 of 3 |

Product designation

Redback, CF2053 series, type B, outdoor, emergency sound-system horn loudspeakers
(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, CF2053 series, type B, outdoor, emergency sound-system horn loudspeakers has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.24:2015, 'Fire detection and alarm systems - Part 24: Sound-system 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

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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|-------------------|-------------------|-------------|---------------------------|-------------|
| Certificate num. | Registration date | Version | Valid until | |
| afp - 3200 | 13-Dec-2017 | Number 1 | Issue date 13-Dec-2017 | 30-Apr-2019 |

Page 2 of 3

Producer's description

The Redback, CF2053 series, type B, outdoor, emergency sound-system horn loudspeakers are intended to provide emergency warning audible broadcasts either for indoor or outdoor applications.

The Redback, CF2053 series consists of the following model variants:

- CF2053G (Grey)
- CF2053W (White)
- CF2053B (Black)
- CF2053R (Red)

This equipment is fitted with a horn-type speaker driver and are rated for a maximum power output of 10 W when provided with an input signal of 100 Vac. Five taps are provided on the included transformer for operating at a range of output levels.

The Redback, CF2053 series, type B, outdoor, emergency sound-system horn loudspeakers are approximately 275 mm in length, and include a plastic horn in front of the driver, with a throat approximately 170 mm in diameter. The loudspeakers are provided with a screw-down rear cover which is fitted with two cable glands for connection to an emergency sound system. The loudspeakers are also provided with a metal bracket for wall or ceiling mounting.

This equipment is intended for both indoor and outdoor applications

Technical specification

The following details are a representative extract of the technical specification for the Redback, CF2053 series, type B, outdoor, emergency sound-system horn loudspeakers 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 | CF2053G | Type A, indoor, flush-mount, emergency sound-system loudspeaker | Grey |
| | CF2053B | | Black |
| | CF2053R | | Red |
| | CF2053W | | White |

Schedule of properties/characteristics

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

| | |
|------------------------------------|--|
| Rated noise power | 10 Watts (100V line) |
| Power taps & impedance (100V line) | 1.25W (8k \wedge), 2.5W (4k \wedge), 5W (2k \wedge), 7.5W (1.33k \wedge), 10W (1k \wedge) |
| Sensitivity | 98dB (1W @ 1m), 86dB (1W @ 4m) |
| Maximum sound pressure level | 110dB (10W @ 1m), 98dB (10W @ 4m) |
| Frequency response | 250Hz - 10kHz, 500Hz - 4kHz 0 \pm 5dB |
| Coverage angle (-6dB) | 500Hz: 88°, 1000Hz: 127°, 2000Hz: 79°, 4000Hz 58° |
| Active EQ | Refer Redback Data Sheet AS ISO7240.24 10W 100V Line Horn Speaker |
| Environmental | Type B (for outdoor applications as per standard) |
| Speaker component | Aluminium voice coil former |
| Mounting depth | 275mm |
| Mounting method | Wall bracket with mounting holes |
| Line monitoring | Yes, 22 μ F bipolar capacitor |
| Applicable cable | 2.5mm 2 (14AWG) max conductor area |
| Connection | 4 way screw terminal |
| Finish | Flame retardant ABS (Absolac 300 MFR) |
| IP rating | IP66 |
| Dimensions | 180 \varnothing x 275Dmm |
| Weight | 0.8kg |

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|-------------------|-------------------|-------------|---------------------------|-------------|
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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 <small>(or date validated)</small> | Source |
|-------------|-----------|--|---|--|
| Ident. type | Ident. | | | |
| Report | XF2980/R1 | Evaluation for Conformity of the Redback, CF2053 series, type B, indoor/outdoor, horn, emergency sound-system loudspeaker to the requirements of AS ISO 7240.24:2015 | 21-Nov-2017 | CSIRO, Fire Systems Laboratory, AU |
| Data Sheet | CF2053 | Redback Data Sheet AS ISO7240.24 10W 100V Line Horn Speaker CF2053G Grey CF2053B Black CF2053R Red CF2053W White CF2053 Datasheet 10-11-2017.pdf | 10-Nov-2017 | Altronic Distributors Pty Ltd, WA, AU |