

Certificate of Constancy of Performance

Intertek

0359-CPR-00488

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s)

Product(s): NS100, NSF100, NSDF100, UNO, DUO, DUO-S, TRIO, ENB100 and NB100
Ranges of Sounders and Visual Alarm Devices
(refer to attached appendix for details and conditions)

placed on the market under the name or trade mark of: **Fircroft Technologies**
The Fircroft, Llanvetherine, Monmouthshire, NP7 8RG, United Kingdom

and produced in the manufacturing plant(s): **FIRCROFT.01**

Intended use: **Fire Safety**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN54-3:2001+A1:2002+A2:2006

EN54-23:2010

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on **18 November 2016** and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Notified Body
0359

Intertek Testing & Certification Limited
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Nerina Walton
Certification Officer



Date 18/11/2016
Issue 1

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

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Appendix to Certificate of Constancy of Performance 0359-CPR-00488

The details and conditions of use for the NS100, NSF100, NSDF100, UNO, DUO, DUO-S, TRIO, ENB100 and NB100 Ranges of Sounders and Visual Alarm Devices, placed on the market under the name or trade mark of:

Fircroft Technologies

The Fircroft, Llanvetherine, Monmouthshire, NP7 8RG, United Kingdom

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (*where applicable*):

Products compliant with EN54-3:2001+A1:2002+A2:2006

Model	Manufacturing Location	Description
NS100R-D	FIRCROFT.01	Sounder in red with deep base
NS100R-DAK	FIRCROFT.01	Sounder in red with DAK base
NS100R-S	FIRCROFT.01	Sounder in red with shallow base
NS100W-D	FIRCROFT.01	Sounder in white with deep base
NS100W-DAK	FIRCROFT.01	Sounder in white with DAK base
NS100W-S	FIRCROFT.01	Sounder in white with shallow base
NSDF100R-RW-D	FIRCROFT.01	Sounder in red with dual red and white strobe and deep base AT
NSDF100R-RW-DAK	FIRCROFT.01	Sounder in red with dual red and white strobe and DAK base
NSDF100R-RW-S	FIRCROFT.01	Sounder in red with dual red and white strobe and shallow base
NSDF100W-RW-D	FIRCROFT.01	Sounder in white with dual red and white strobe and deep base AT
NSDF100W-RW-DAK	FIRCROFT.01	Sounder in red with dual red and white strobe and DAK base
NSF100R-R-D	FIRCROFT.01	Sounder in red with red strobe and deep base
NSF100R-R-DAK	FIRCROFT.01	Sounder in red with red strobe and DAK base
NSF100R-R-S	FIRCROFT.01	Sounder in red with red strobe and shallow base
NSF100R-W-D	FIRCROFT.01	Sounder in red with white strobe and deep base
NSF100R-W-DAK	FIRCROFT.01	Sounder in red with white strobe and DAK base
NSF100R-W-S	FIRCROFT.01	Sounder in red with white strobe and shallow base
NSF100W-R-D	FIRCROFT.01	Sounder in white with red strobe and deep base
NSF100W-R-DAK	FIRCROFT.01	Sounder in white with red strobe and DAK base
NSF100W-R-S	FIRCROFT.01	Sounder in white with red strobe and shallow base
NSF100W-W-D	FIRCROFT.01	Sounder in white with white strobe and deep base
NSF100W-W-DAK	FIRCROFT.01	Sounder in white with white strobe and DAK base
NSF100W-W-S	FIRCROFT.01	Sounder in white with white strobe and shallow base
TRIO-R-SRW	FIRCROFT.01	Triple red deep base with DUO-RW strobe and NS100R sounder fitted
TRIO-W-SRW	FIRCROFT.01	Triple white deep base with DUO-RW strobe and NS100R sounder fitted
DUO-R-SRW	FIRCROFT.01	Double red deep base with NB100R-RW-D strobe and NS100R sounder fitted
DUO-W-SRW	FIRCROFT.01	Double white deep base with NB100R-RW-D strobe and NS100R sounder fitted

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Appendix to Certificate of Constancy of Performance 0359-CPR-00488 (continued)

Products compliant with EN54-23:2010

Model	Manufacturing Location	Description
ENB100R-R-D	FIRCROFT.01	Strobe in red with red strobe and deep base
ENB100R-R-DAK	FIRCROFT.01	Strobe in red with red strobe and DAK base
ENB100R-R-DAK-HO	FIRCROFT.01	Strobe in red with high output red strobe and DAK base
ENB100R-R-D-HO	FIRCROFT.01	Strobe in red with high output red strobe and deep base
ENB100R-R-S	FIRCROFT.01	Strobe in red with red strobe and shallow base
ENB100R-R-S-HO	FIRCROFT.01	Strobe in red with high output red strobe and shallow base
ENB100R-W-D	FIRCROFT.01	Strobe in red with white strobe and deep base
ENB100R-W-DAK	FIRCROFT.01	Strobe in red with white strobe and DAK base
ENB100R-W-DAK-HO	FIRCROFT.01	Strobe in red with high output white strobe and DAK base
ENB100R-W-D-HO	FIRCROFT.01	Strobe in red with high output white strobe and deep base
ENB100R-W-S	FIRCROFT.01	Strobe in red with white strobe and shallow base
ENB100R-W-S-HO	FIRCROFT.01	Strobe in red with high output white strobe and shallow base
ENB100W-R-D	FIRCROFT.01	Strobe in white with red strobe and deep base
ENB100W-R-DAK	FIRCROFT.01	Strobe in white with red strobe and DAK base
ENB100W-R-DAK-HO	FIRCROFT.01	Strobe in white with high output red strobe and DAK base
ENB100W-R-D-HO	FIRCROFT.01	Strobe in white with high output red strobe and deep base
ENB100W-R-S	FIRCROFT.01	Strobe in white with red strobe and shallow base
ENB100W-R-S-HO	FIRCROFT.01	Strobe in white with high output red strobe and shallow base
ENB100W-W-D	FIRCROFT.01	Strobe in white with white strobe and deep base
ENB100W-W-DAK	FIRCROFT.01	Strobe in white with white strobe and DAK base
ENB100W-W-DAK-HO	FIRCROFT.01	Strobe in white with high output white strobe and DAK base
ENB100W-W-D-HO	FIRCROFT.01	Strobe in white with high output white strobe and deep base
ENB100W-W-S	FIRCROFT.01	Strobe in white with white strobe and shallow base
ENB100W-W-S-HO	FIRCROFT.01	Strobe in white with high output white strobe and shallow base
NB100R-R-D	FIRCROFT.01	Red high output strobe with red deep base
NB100R-R-S	FIRCROFT.01	Red high output strobe with red shallow base
NB100R-R-DAK	FIRCROFT.01	Red high output strobe with red DAK base
NB100R-W-D	FIRCROFT.01	White high output strobe with red deep base
NB100R-W-S	FIRCROFT.01	White high output strobe with red shallow base
NB100R-W-DAK	FIRCROFT.01	White high output strobe with red DAK base
NB100W-R-D	FIRCROFT.01	Red high output strobe with white deep base
NB100W-R-S	FIRCROFT.01	Red high output strobe with white shallow base
NB100W-R-DAK	FIRCROFT.01	Red high output strobe with white DAK base
NB100W-W-D	FIRCROFT.01	White high output strobe with white deep base
NB100W-W-S	FIRCROFT.01	White high output strobe with white shallow base
NB100W-W-DAK	FIRCROFT.01	White high output strobe with white DAK base
NSDF100R-RW-D	FIRCROFT.01	Sounder in red with dual red and white strobe and deep base AT
NSDF100R-RW-DAK	FIRCROFT.01	Sounder in red with dual red and white strobe and DAK base
NSDF100W-RW-DAK	FIRCROFT.01	Sounder in red with dual red and white strobe and DAK base
NSDF100R-RW-S	FIRCROFT.01	Sounder in red with dual red and white strobe and shallow base
NSDF100W-RW-D	FIRCROFT.01	Sounder in white with dual red and white strobe and deep base AT
NSDF100W-RW-S	FIRCROFT.01	Sounder in white with dual red and white strobe and shallow base

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Appendix to Certificate of Constancy of Performance 0359-CPR-00488 (continued)

Products compliant with EN54-23:2010 (continued)

Model	Manufacturing Location	Description
NSF100R-R-D	FIRCROFT.01	Sounder in red with red strobe and deep base
NSF100R-R-DAK	FIRCROFT.01	Sounder in red with red strobe and DAK base
NSF100R-R-S	FIRCROFT.01	Sounder in red with red strobe and shallow base
NSF100R-W-D	FIRCROFT.01	Sounder in red with white strobe and deep base
NSF100R-W-DAK	FIRCROFT.01	Sounder in red with white strobe and DAK base
NSF100R-W-S	FIRCROFT.01	Sounder in red with white strobe and shallow base
NSF100W-R-D	FIRCROFT.01	Sounder in white with red strobe and deep base
NSF100W-R-DAK	FIRCROFT.01	Sounder in white with red strobe and DAK base
NSF100W-R-S	FIRCROFT.01	Sounder in white with red strobe and shallow base
NSF100W-W-D	FIRCROFT.01	Sounder in white with white strobe and deep base
NSF100W-W-DAK	FIRCROFT.01	Sounder in white with white strobe and DAK base
NSF100W-W-S	FIRCROFT.01	Sounder in white with white strobe and shallow base
TRIO-R-SRW	FIRCROFT.01	Triple red deep base with DUO-RW strobe and NS100R sounder fitted
TRIO-W-SRW	FIRCROFT.01	Triple white deep base with DUO-RW strobe and NS100R sounder fitted
UNO-R-RW	FIRCROFT.01	Red and white dual colour high output strobe with red deep base
UNO-W-RW	FIRCROFT.01	Red and white dual colour high output strobe with white deep base
DUO-R-RW	FIRCROFT.01	Double red deep base dual colour hi output strobe
DUO-R-SRW	FIRCROFT.01	Double red deep base with UNO-R-RW strobe and NS100R sounder fitted
DUO-W-RW	FIRCROFT.01	Double white deep base dual colour high output strobe
DUO-W-SRW	FIRCROFT.01	Double white deep base with UNO-R-RW strobe and NS100 sounder fitted

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Appendix to Certificate of Constancy of Performance 0359-CPR-00488 (continued)

Bases:

Each product has the compliant base identified in the product description.

Model	Description
48-0001	Deep base AT
48-0002	Double base AT
48-0003	Triple base AT wired
48-0004	Double base AT wired
48-0005	Deep base
48-0006	Deep base with PCB cradle (DAK base)
48-0007	Shallow base

Compliant settings:

EN54-3:2001+A1:2002+A2:2006

All applicable models are approved for use with the following tones at maximum volume setting only:

Tone Setting	Tone Description
Tone 6	660 Hz, Intermittent (0.5 s ON – 0.5 s OFF)
Tone 8	800 – 1000 Hz Sweep (1 Hz)
Tone 12	500 -1200 Hz, Sweep, (3.5 s ON – 0.5 s OFF)

EN54-23:2010

All models within the NSF100 range have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1 s, Low power	White	W-2.4-5.6
1 s, High power	White	W-2.4-7.6
2 s, Low power	White	W-2.4-5.6
2 s, High power	White	W-2.4-7.6
1 s, Low power	Red	W-2.4-5
1 s, High power	Red	W-2.4-6.5
2 s, Low power	Red	W-2.4-5
2 s, High power	Red	W-2.4-6.5

Appendix to Certificate of Constancy of Performance 0359-CPR-00488 (continued)

All models within the ENB100 range have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1 s, Low power	White	W-2.4-6
1 s, High power	White	W-2.4-8
2 s, Low power	White	W-2.4-6
2 s, High power	White	W-2.4-8
1 s, Low power	Red	W-2.4-5
1 s, High power	Red	W-2.4-6.2
2 s, Low power	Red	W-2.4-5
2 s, High power	Red	W-2.4-6.2

All models within the NB100 range have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1 s, Low power	White	W-3-9
1 s, High power	White	W-5-12
2 s, Low power	White	W-3-9
2 s, High power	White	W-5-12
1 s, Low power	Red	W-2.4-7
1 s, High power	Red	W-2.4-9.5
2 s, Low power	Red	W-2.4-7
2 s, High power	Red	W-2.4-9.5

All models within the ENB100HO range have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1 s, Low power	White	W-2.4-10
1 s, High power	White	W-3.5-13.4
2 s, Low power	White	W-2.4-10
2 s, High power	White	W-3.5-13.4
1 s, Low power	Red	W-2.4-8
1 s, High power	Red	W-2.4-10
2 s, Low power	Red	W-2.4-8
2 s, High power	Red	W-2.4-10

All models within the NSDF100 range have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1 s, Low power	Red / White*	W-2.4-5.6
1 s, High power	Red / White*	W-2.4-7.6
2 s, Low power	White	W-2.4-5.6
2 s, High power	White	W-2.4-7.6

* Models within the NSDF100 range have a dual flash colour. When the dual red / white setting is used, compliance to EN54-23:2010 is based on the white flash only.

Appendix to Certificate of Constancy of Performance 0359-CPR-00488 (continued)

All models within the UNO, DUO, DUO-S and TRIO ranges have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1s Low power	Red / White*	W-3-9
1s High power	Red / White*	W-5-12
2s Low power	White	W-3-9
2s High power	White	W-5-12
1s Low power	Red (alarm) / White (pre-alarm)*	W-3-9
1s High power	Red (alarm) / White (pre-alarm)*	W-5-12

* Models UNO, DUO, DUO-S and TRIO have a dual flash colour. When the dual red / white setting is used, compliance to EN54-23:2010 is based on the white flash only.

Conditions of use:

All models are suitable for indoor or outdoor applications.

General Notes:

1. No CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.