CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-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, NB100 and NSB100 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 Limited** Unit 10, Castle Mews, Castle Farm, Raglan, Monmouthshire, NP15 2BT, United Kingdom
and produced in the manufacturing plant(s):	**SG-23658**
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 **0359-CPR-00488** on **2016-11-18** 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 0905

Certification Manager: Dipl.-Ing. Roland Heine

Date Issue: 2022-03-22
Issue: 2

Signature:

111170

DocuSign

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APPENDIX TO: Certificate of Constancy of Performance 0905-CPR-00488

The details and conditions of use for the NS100, NSF100, NSDF100, UNO, DUO, DUO-S, TRIO, ENB100, NB100 and NSB100 range of Sounders and Visual Alarm Devices, placed on the market under the name or trademark of:

Fircroft Technologies Limited
Unit 10, Castle Mews, Castle Farm, Raglan, Monmouthshire, NP15 2BT, 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*	SG-23658	Sounder in red with deep base
NS100R-DAK	SG-23658	Sounder in red with DAK base
NS100R-S*	SG-23658	Sounder in red with shallow base
NS100W-D*	SG-23658	Sounder in white with deep base
NS100W-DAK	SG-23658	Sounder in white with DAK base
NS100W-S*	SG-23658	Sounder in white with shallow base
NSDF100R-RW-D	SG-23658	Sounder in red with dual red and white strobe and deep base AT
NSDF100R-RW-DAK	SG-23658	Sounder in red with dual red and white strobe and DAK base
NSDF100R-RW-S	SG-23658	Sounder in red with dual red and white strobe and shallow base
NSDF100W-RW-D	SG-23658	Sounder in white with dual red and white strobe and deep base AT
NSDF100W-RW-DAK	SG-23658	Sounder in red with dual red and white strobe and DAK base
NSF100R-R-D*	SG-23658	Sounder in red with red strobe and deep base
NSF100R-R-DAK	SG-23658	Sounder in red with red strobe and DAK base
NSF100R-R-S*	SG-23658	Sounder in red with red strobe and shallow base
NSF100R-W-D*	SG-23658	Sounder in red with white strobe and deep base
NSF100R-W-DAK	SG-23658	Sounder in red with white strobe and DAK base
NSF100R-W-S*	SG-23658	Sounder in red with white strobe and shallow base
NSF100W-R-D*	SG-23658	Sounder in white with red strobe and deep base
NSF100W-R-DAK	SG-23658	Sounder in white with red strobe and DAK base
NSF100W-R-S*	SG-23658	Sounder in white with red strobe and shallow base
NSF100W-W-D*	SG-23658	Sounder in white with white strobe and deep base
NSF100W-W-DAK	SG-23658	Sounder in white with white strobe and DAK base
NSF100W-W-S*	SG-23658	Sounder in white with white strobe and shallow base
NSB100R-SR*	SG-23658	Double Red Deep base with NS100R sounder and NB100R strobe
NSB100R-SW*	SG-23658	Double Red Deep base with NS100R sounder and NB100W strobe
NSB100W-SR*	SG-23658	Double White Deep base with NS100W sounder and NB100R strobe
NSB100W-SW*	SG-23658	Double White Deep base with NS100W sounder and NB100W strobe

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Products compliant with EN54-3:2001+A1:2002+A2:2006 (cont'd):

Model	Manufacturing Location	Description
TRIO-R-SRW*	SG-23658	Triple red deep base with DUO-RW strobe and NS100R sounder
TRIO-W-SRW*	SG-23658	Triple white deep base with DUO-RW strobe and NS100R sounder
DUO-R-SRW*	SG-23658	Double red deep base with NB100R-RW-D strobe and NS100R sounder
DUO-W-SRW*	SG-23658	Double white deep base with NB100R-RW-D strobe and NS100R sounder

* = Items marked with an asterisk could have the following extensions; "-FR" where "-FR" means built using the French NS100 version or French NSF100 version.

All products could contain a 3 character identifier which defines a customer Logo used if the product is not standard Fircroft branded. Example, NS100W-D-FR-ARK.

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Products compliant with EN54-23:2010:

Model	Manufacturing Location	Description
ENB100R-R-D	SG-23658	Strobe in red with red strobe and deep base
ENB100R-R-DAK	SG-23658	Strobe in red with red strobe and DAK base
ENB100R-R-DAK-HO	SG-23658	Strobe in red with high output red strobe and DAK base
ENB100R-R-D-HO	SG-23658	Strobe in red with high output red strobe and deep base
ENB100R-R-S	SG-23658	Strobe in red with red strobe and shallow base
ENB100R-R-S-HO	SG-23658	Strobe in red with high output red strobe and shallow base
ENB100R-W-D	SG-23658	Strobe in red with white strobe and deep base
ENB100R-W-DAK	SG-23658	Strobe in red with white strobe and DAK base
ENB100R-W-DAK-HO	SG-23658	Strobe in red with high output white strobe and DAK base
ENB100R-W-D-HO	SG-23658	Strobe in red with high output white strobe and deep base
ENB100R-W-S	SG-23658	Strobe in red with white strobe and shallow base
ENB100R-W-S-HO	SG-23658	Strobe in red with high output white strobe and shallow base
ENB100W-R-D	SG-23658	Strobe in white with red strobe and deep base
ENB100W-R-DAK	SG-23658	Strobe in white with red strobe and DAK base
ENB100W-R-DAK-HO	SG-23658	Strobe in white with high output red strobe and DAK base
ENB100W-R-D-HO	SG-23658	Strobe in white with high output red strobe and deep base
ENB100W-R-S	SG-23658	Strobe in white with red strobe and shallow base
ENB100W-R-S-HO	SG-23658	Strobe in white with high output red strobe and shallow base
ENB100W-W-D	SG-23658	Strobe in white with white strobe and deep base
ENB100W-W-DAK	SG-23658	Strobe in white with white strobe and DAK base
ENB100W-W-DAK-HO	SG-23658	Strobe in white with high output white strobe and DAK base
ENB100W-W-D-HO	SG-23658	Strobe in white with high output white strobe and deep base
ENB100W-W-S	SG-23658	Strobe in white with white strobe and shallow base
ENB100W-W-S-HO	SG-23658	Strobe in white with high output white strobe and shallow base
NB100R-R-D	SG-23658	Red high output strobe with red deep base
NB100R-R-S	SG-23658	Red high output strobe with red shallow base
NB100R-R-DAK	SG-23658	Red high output strobe with red DAK base
NB100R-W-D	SG-23658	White high output strobe with red deep base
NB100R-W-S	SG-23658	White high output strobe with red shallow base
NB100R-W-DAK	SG-23658	White high output strobe with red DAK base
NB100W-R-D	SG-23658	Red high output strobe with white deep base
NB100W-R-S	SG-23658	Red high output strobe with white shallow base
NB100W-R-DAK	SG-23658	Red high output strobe with white DAK base
NB100W-W-D	SG-23658	White high output strobe with white deep base
NB100W-W-S	SG-23658	White high output strobe with white shallow base

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Products compliant with EN54-23:2010 (cont'd):

Model	Manufacturing Location	Description
NB100W-W-DAK	SG-23658	White high output strobe with white DAK base
NSB100R-SR*	SG-23658	Double Red Deep base with NS100R sounder and NB100W strobe
NSB100R-SW*	SG-23658	Double Red Deep base with NS100R sounder and NB100R strobe
NSB100W-SR*	SG-23658	Double White Deep base with NS100W sounder and NB100R strobe
NSB100W-SW*	SG-23658	Double White Deep base with NS100W sounder and NB100W strobe
NSDF100R-RW-D	SG-23658	Sounder in red with dual red and white strobe and deep base AT
NSDF100R-RW-DAK	SG-23658	Sounder in red with dual red and white strobe and DAK base
NSDF100R-RW-S	SG-23658	Sounder in red with dual red and white strobe and shallow base
NSDF100W-RW-D	SG-23658	Sounder in white with dual red and white strobe and deep base AT
NSDF100W-RW-DAK	SG-23658	Sounder in white with dual red and white strobe and DAK base
NSDF100W-RW-S	SG-23658	Sounder in white with dual red and white strobe and shallow base
NSF100R-R-D*	SG-23658	Sounder in red with red strobe and deep base
NSF100R-R-DAK	SG-23658	Sounder in red with red strobe and DAK base
NSF100R-R-S*	SG-23658	Sounder in red with red strobe and shallow base
NSF100R-W-D*	SG-23658	Sounder in red with white strobe and deep base
NSF100R-W-DAK	SG-23658	Sounder in red with white strobe and DAK base
NSF100R-W-S*	SG-23658	Sounder in red with white strobe and shallow base
NSF100W-R-D*	SG-23658	Sounder in white with red strobe and deep base
NSF100W-R-DAK	SG-23658	Sounder in white with red strobe and DAK base
NSF100W-R-S*	SG-23658	Sounder in white with red strobe and shallow base
NSF100W-W-D*	SG-23658	Sounder in white with white strobe and deep base
NSF100W-W-DAK	SG-23658	Sounder in white with white strobe and DAK base
NSF100W-W-S*	SG-23658	Sounder in white with white strobe and shallow base
TRIO-R-SRW*	SG-23658	Triple red deep base with DUO-RW strobe and NS100R sounder
TRIO-W-SRW*	SG-23658	Triple white deep base with DUO-RW strobe and NS100R sounder
UNO-R-RW	SG-23658	Red and white dual colour high output strobe with red deep base
UNO-W-RW	SG-23658	Red and white dual colour high output strobe with white deep base
DUO-R-RW*	SG-23658	Double red deep base dual colour high output strobe
DUO-R-SRW*	SG-23658	Double red deep base with UNO-R-RW strobe and NS100R sounder
DUO-W-RW*	SG-23658	Double white deep base dual colour high output strobe
DUO-W-SRW*	SG-23658	Double white deep base with UNO-R-RW strobe and NS100R sounder

* = Items marked with an asterisk could have the following extensions; "-FR" where "-FR" means built using the French NS100 version or French NSF100 version.

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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 setting only:

Tone Setting	Tone Description
Tone 6	660Hz Intermittent (0.5s ON - 0.5s OFF)
Tone 8	800 - 1000Hz Sweep (1Hz)
Tone 10	800 and 1000Hz Alternating (0.5s - 0.5s)
Tone 12	500 - 1200Hz Sweep (3.5s ON - 0.5s OFF)
Tone 14	440 - 554Hz French tone NF32-001
Tone 26	1200 - 500Hz Sweep (1Hz) DIN tone

EN54-23:2010

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

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

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

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

EN54-23:2010

All models within the NB100 and NSB100 ranges have been approved with the following settings:

Flash Rate and Power	Flash Colour	Coverage Volume
1s, Low power	White	W-3-9
1s, High power	White	W-5-12
2s, Low power	White	W-3-9
2s, High power	White	W-5-12
1s, Low power	Red	W-2.4-7
1s, High power	Red	W-2.4-9.5
2s, Low power	Red	W-2.4-7
2s, 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
1s, Low power	White	W-2.4-10
1s, High power	White	W-3.5-13.4
2s, Low power	White	W-2.4-10
2s, High power	White	W-3.5-13.4
1s, Low power	Red	W-2.4-8
1s, High power	Red	W-2.4-10
2s, Low power	Red	W-2.4-8
2s, High power	Red	W-2.4-10

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

Flash Rate and Power	Flash Colour	Coverage Volume
1s, Low power	Red / White*	W-2.4-5.6
1s, High power	Red / White*	W-2.4-7.6
2s, Low power	White	W-2.4-5.6
2s, 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, coverage volume to EN54-23:2010 is based on the white flash only.

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

Conditions of use:

Suitable for indoor or outdoor applications.

General Notes:

1. Evaluated under Intertek test report numbers 101842701LHD-011, 101842701LHD-012, 101842701LHD-013, 101842701LHD-014 and 104345198LHD-021.
2. 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.

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