



Marine & Offshore
Division

Certificate number: 05786/D1 EC

File number: PYR 2466/01

Annex A1 Item number: A.1/1.10

USCG Module B number: 160.122 / EC0062

*This certificate is not valid when presented without the full
attached schedule composed of 7 sections*

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive 2014/93/EU

This certificate is issued to

Nammo LIAB AB

Lindesberg - SWEDEN

for the type of product

BUOYANT SMOKE SIGNALS (PYROTECHNICS)

IKAROS Buoyant Smoke, Orange

Art.N° 342 130

Requirements:

SOLAS 74 Convention as amended, Reg. III/4, III/34 & X/3

IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89) & MSC.368(93), I, III

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89) & MSC.378(93)

IMO MSC/Circ. 980

This certificate is issued on behalf of the French Maritime Authorities to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 17 Jul 2019

For BUREAU VERITAS Notified Body 0062,

At BV GOTHENBURG, on 12 Nov 2015,

Magne MOLLER



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Article N°	Trademark	Designation	Diameter	Overall length
342 130	Nammo LIAB AB	IKAROS Buoyant Smoke, Orange	95mm	101mm

2. DOCUMENTS AND DRAWINGS :

- Drawings and specifications:

Number	Title	Revision	Date
DS 342130	IKAROS Buoyant Smoke, Orange	1	2015/08/24

- Manual(s) for installation use and maintenance.

No departure from these documents is permitted without the prior consent of the society.

3. TEST REPORTS :

The product has been type tested by the manufacturer and witnessed by Bureau Veritas as per test reports listed :

DATE	TEST
23/09/1994	TB 2421/6.3 Initial type tests
23/09/1994	TB 3421/95 Initial type tests
23/09/1994	TB 3421/9.2.5 Initial type tests
23/09/1994	TB 3421/9.4 Initial type tests
28/06/1994	94 M 51609 Salt spray test by the Swedish National Testing and Research Institute
14/03/1998	--- Fully retested for approval of a modification
03/11/2004	--- Evaluation and Type report as per IMO Circ.980
16/10/2008	--- Annual Tests 2008 - Taking into account the amended IMO resolutions
02/10/2013	--- Additional Type Tests (Annual Tests 2013)
02/04/2014	--- Additional Type Tests (Linked to annual Tests 2013)
17/08/2015	--- Additional Type Tests (2015)

4. APPLICATION / LIMITATION :

- As per requirements of regulations stated on front page of this certificate.
- Each Buoyant Smoke Signal will be supplied with its instructions for use, inspections and on-board maintenance complying with Regulations stated on the front page of this certificate.
- Expiration date not to exceed 48 months after month of manufacture
- The equipment shall be replaced prior the date of expiry which is marked on the signal casing.
- Shall be used as per Manufacturer's operational instructions.

5. PRODUCTION SURVEY REQUIREMENTS :

This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

The manufacturer shall institute a quality control procedure to ensure that the Buoyant Smoke Signals are produced to the same standard as the approved prototype and shall keep records of any production tests carried out in accordance with instructions given in IMO Resolution MSC.81 (70) Part 2.

Each equipment or batch of equipment is to be supplied with its manual(s) for installation, use and maintenance.

For information concerning the production phase modules, **Nammo LIAB AB** has declared the following manufacturing places:

Nammo LIAB AB
Box 54
711 22 Lindesberg

6. MARKING OF PRODUCT :

Brief instructions or diagrams clearly illustrating the use of the Buoyant Smoke Signal shall be indelibly marked on the casing.

The signal body shall bear the following marks

- Manufacturer name or logo
- Trade name
- SOLAS approved.
- Lot number
- Means of determining its age or the date by which they must be replaced
- Markings as per MED 96/98/EC ☒ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (where BV, 0062) and XX are the last two digits of year mark affixed.

In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the manufactured item(s) can be affixed with the USCG conformity marking, subject to the authorization of the Conformity Assessment Body undertaking surveillance module.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out at any time and that the manufacturer will accept full responsibility for informing Shipowners or their sub-contractors of the proper methods of use, storing and maintenance of the approved life-saving appliances and of the conditions of this approval.

This certificate supersedes the EC Type Examination Certificate No 05786/D0 EC issued on 17/07/2014 by the Society.

***** END OF CERTIFICATE *****