



**Marine & Offshore
Division**

Certificate number: 06890/D0 EC

File number: PYR 2466/06

Annex A1 Item number: A.1/1.11

USCG Module B number: 160.040 / 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 2012/32/EU*

This certificate is issued to

Nammo LIAB AB
Lindesberg - SWEDEN

for the type of product

LINE-THROWING APPLIANCES

Ikaros Line-Thrower (Art. N° 346 100)

1 Line-throwing Appliance = 4 units "Ikaros Line-Thrower (Art. N° 346 100)"

Requirements:

SOLAS 74 Convention as amended, Reg. III/4, X/3, III/18 and III/34

IMO Res. MSC.36(63)-(1994 HSC Code), 8 IMO Res. MSC.97(73)-(2000 HSC Code) 8

IMO Res. MSC.48(66) amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87) & MSC.320(89)

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)

IMO MSC/Circ. 980

This certificate is issued under the French Maritime Authority 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 17 Jul 2014,

Ulf Mentzer



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

- **1 Line-throwing Appliance = 4 units** " Ikaros Line, Line Thrower, Article N° 346 100"

To conform to the requirements of the paragraph 7.1.1 of IMO Resolution MSC 48(66), each Line-throwing Appliance is constituted by a set of 4 units " Ikaros Line, Line Thrower, Article N° 346 100".

Trademark	HANSON Pyrotech AB
Type	Ikaros Line-Thrower
Reference	346 100

Each unit "Ikaros Line-Thrower" includes its own Projectile with Cartridge and Line.

Length	Diameter	Height	Nylon rope
340 mm	230 mm	295 mm	300 meters of white polypropylene yarn with a breaking strength of not less than 2 kN

2. DOCUMENTS AND DRAWINGS

- Manufacturer's specification and drawings:

Number	Title	Revision	Date
DS 346100	Line-Thrower	0	2014/06/13

- Manual(s) for installation use and maintenance.

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

3. TEST REPORTS

DATE	TEST	
22/11/96	Prototypetest,Ikaros Line 3641	Initial type tests
15/11/2004	---	Annual Tests 2004
15/11/2006	---	Annual Tests 2006
21/12/2007	---	Annual Tests 2007
07/11/2008	---	Annual Tests 2008
03/10/2013	---	Taking into account the amended IMO resolutions
02/04/2014	---	Additional Type Tests (Annual Tests 2013)
30/05/2014	---	Additional Type Tests (Linked to annual Tests 2013)
	---	Additional Type Tests (Linked to annual Tests 2013)

4. APPLICATION / LIMITATION

- As per requirements of regulations stated on front page of this certificate.
- Line-throwing appliances shall be replaced prior the expiry date marked on its casing but not later than **Four years** after date of manufacture.
- Each line-throwing appliances will be supplied with its instructions for use, inspections and on-board maintenance complying with Regulations stated on the front page of this certificate.
- To conform to the requirements of the paragraph 7.1.1 of IMO Resolution MSC 48(66), one Line-throwing Appliance is constituted by 4 units " Ikaros Line, Line Thrower, Article N° 346 100".

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 Line-throwing Appliances 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 that the product may be manufactured at the following manufacturing places :

Nammo LIAB AB
Box 54
711 22 Lindesberg
SWEDEN

6. MARKING OF PRODUCT

Clear and concise directions of use, in English language, supported by illustrations, shall be printed indelibly on the signal body.

The signal body shall bear the following marks:

- Trade name
- SOLAS approved.
- Lot number
- Manufacture date
- Date of expiry
- 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 of proper methods of use, storing and maintenance of the line throwing appliance and the conditions of this approval.

This certificate supersedes EC Type Examination Certificate N° 06890/C2 EC, issued on 09/07/2013 by the Society.

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