

MARINE DIVISION

67/71 Boulevard du Château
92200 Neuilly-sur-Seine - France

Tel. 33 1 55 24 70 00
Fax. 33 1 55 24 70 45
www.veristar.com



Certificate number: 06507/C0 BV

File number: PYR 2466/03

Product code: 6014H

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

TYPE APPROVAL CERTIFICATE

This certificate is issued to

Nammo LIAB AB
Lindesberg - SWEDEN

for the type of product

HAND ORANGE SMOKE DISTRESS SIGNALS

Ikaros Handsmoke, Orange - N° 341700

Regulations and standards:

Australian Standard AS 2092-2004

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until: 15 Apr 2014

At Neuilly, on: 15 Apr 2009

For BUREAU VERITAS,
By order of the Secretary

L. COURREGELONGUE

Approval office



Local office: BV GOTHENBURG
Surveyor: M. Moller



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. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. 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

Ilkaros Handsmoke, Orange Hand-held distress signal for pleasure craft.

- Dimensions: 30 mm diameter - 243mm length.
- Gross weight: 210 g \pm 10%.
- Net explosive weight: 48 g \pm 5%.
- Smoke duration time: minimum 60 seconds.
- Tactile marking: a ring ("O") on the orange lid on top of the signal.

2. DOCUMENTS AND DRAWINGS

2.1 - Drawings and specifications:

- 24516 edition 0 "Handheld flare, smoke, Australia"
- 24464 edition 1 "Tactile lid, Orange"
- 661002 edition B "Etikett Rok"

No departure from this drawing shall be made without the prior consent of the Society.

2.2 Manual for installation, use and maintenance

3. TEST REPORTS

3.1 - The Orange Hand-held distress signal has been type tested by the manufacturer under the supervision of a Society's Surveyor, in accordance with AS 2092-1988 as amended by Amendment No1 as per test reports "prototype test Handsmoke 341700" dated 24/05/96 and 20/09/96.

3.2 – Further, type tested by the manufacturer under supervision of Bureau Veritas, in accordance with AS 2092-1988 as amended by Amendment No1, 5.3(c)(i-iii), 9.2 and Appendix A & B, for purpose of compliance with the Code of Federal Regulations (CFR), Title 46, subpart 160.037, revised as of October 1, 2001, as per test report dated 2002-10-31.

3.3 The hand flare has been type tested by the manufacturer under supervision of Bureau Veritas as per "Annual test report 2007" dated 21/12/2007;

3.4 And, the hand flare has been type tested in accordance with AS 2092-2004 by the manufacturer under supervision of Bureau Veritas as per "Annual test report 2008" dated 28/11/2008;

4. APPLICATION / LIMITATION

4.1 Approved for use as Orange Hand-held distress signal onboard ships as per Regulations stated on the front page of this certificate.

4.2 Each Orange Hand-held distress 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.

4.3 The equipment shall be replaced prior the date of expiry which is marked in the signal casing (but not later than 3 years from the manufacture date).

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The manufacturer shall institute a quality control procedure to ensure that the Orange Hand-held distress signal are produced to the same standard as the approved prototype and shall keep records of any production tests carried out in accordance with AS 2092-2004.

5.2 Arrangements shall be made, for a Society's Surveyor, to carry out, on a periodic basis, product audits at the Manufacturer's Works.

6. MARKING OF PRODUCT

6.1- Every item, or batch of items, to be affixed with the following marking:

- Identification of the type of signal
- Manufacturer name or logo
- Type designation
- Date of manufacture
- Date of expiry
- Batch number

6.2 - Brief instructions or diagrams clearly illustrating the use of the Orange Hand-held distress signal shall be printed indelibly on its casing;

7. OTHERS

7.1 - 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 signal and the conditions of this approval.

7.2 - Works address: Nammo LIAB AB, S6711 23 Lindesberg, Sweden.

7.3 - This certificate supersedes Type Approval Certificate No 06507/B2 BV, issued on 31/08/2004 by the Society.

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