EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00005F3
Revision no.:
2

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS, Veritasveien 1, 1363 Høvik, Norway under the authority of the Government of Norway.

This is to certify:

that the **Hand flares**

with type designation(s)
IKAROS Hand Flare Red

issued to

Hansson PyroTech AB
Box 54
711 22 Lindesberg
Sweden

is found to comply with the Implementing Regulation **(EU) 2026/1434** for
Item no. **MED/1.9** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.48(66)-(LSA Code) III, IMO Res. MSC.97(73)-(2000 HSC Code) 8, SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-11-06**

Expiry date: **2029-05-15**

for **DNV AS**

DNV local unit:
Sweden CMC

Approval Engineer:
Helge Bjørnarå

Notified Body
no.: **0575**

Digitally Signed By:
Christine Mydlak-Röder

Christine Mydlak-Röder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer’s Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

"IKAROS Hand Flare Red"
Hand flares burning with a bright red colour for at least 1 minute and average luminous intensity of minimum 15.000 candela.

Design weight: 235 ±10% g

Application/Limitation

Approved for use as hand flare (pyrotechnics).

Acceptable lifetime: expiration date not to exceed 48 months after month of manufacture.

Liferaft drop test has to be performed before installation on liferafts.

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production tests shall be carried out in accordance with IMO Res. MSC.81(70), Part 2, Ch.4 and ISO 15736:2006 A.2.2.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Please see Appendix: Type Examination Documentation

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82) and IMO Res. MSC.323(89).

Marking of product

The product is to be marked with name and address of manufacturer, type designation, date of manufacture, date of expiry, operational restrictions, Mark of Conformity and USCG number if applicable (see first page).

The product should be provided with brief instructions or diagrams clearly illustrating the use printed on the casing.

APPENDIX

Type Examination documentation

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Document No.	Rev.	Title
MSC/Circ.980		Test report dated 1 October to 30 September 2013 from manufacturer
MSC/Circ.980		Test report dated 30 March to 2 April 2015 from manufacturer
MSC/Circ.980		Test report dated 16 to 19 August 2011 from manufacturer
MSC/Circ.980		Test report dated 29 May 2012 from manufacturer
SBTC 15-0080R		Test report dated 30 March 2015 from Bofors Test Center, Sweden
H20260227		Test report dated 27 February 2026 from Bjornax, Nora, Sweden
H20260227	2	Test report dated 24 March 2026 from Bjornax, Nora, Sweden
H20260612	1	Test report dated 16 June 2026 from Bjornax, Nora, Sweden
663000	9	Hand Flare Red
665006	5	Igniter housing, assembled
665007	6	Pulling cord, complete