

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Line-throwing appliances

with type designation(s)
PLT SOLAS

Issued to

Restech Norway AS
BODØ, Norway

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

item No. MED/1.11. SOLAS 74 as amended, Regulation III/4, III/18, III/34 & X/3, LSA Code and 2000 HSC Code 8

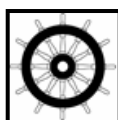
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-08-06**.

Issued at **Høvik** on **2018-08-07**

DNV GL local station:
Bodø

Approval Engineer:
Nathaniel Frithiof



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"PLT Solas"

line throwing appliance of hand held pneumatic type consisting of a pressurized air cylinder, anodized aluminium & stainless steel launching unit and four projectiles, each containing minimum 230 m nylon line.

Projectile weight: 1.8 kg
Launching unit: 9.6 kg
Fully equipped weight: 11.4 kg

Application/Limitation

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 and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.4.

The air cylinder shall be pressurized to minimum 200 bars, maximum 300 bars. The air cylinder shall be checked periodically according to user manual and have a hydrostatic test performed every 5 years from date of manufacture.

The unit shall be stored in a dry and safe place when not in use.

Type Examination documentation

Test report from tests performed at Restech Norway AS, Bodø dated 27th April 2018 and witnessed by DNV GL.

Technical documentation:

Drawing No	Rev.	Title	Date
		PLT Solas - Bill of material	
		PLT Solas - Tensile test of lines for projectiles	2018-04-17
		PLT Solas - Cyclic test of projectile	2018-01-29
		PLT Solas - User Manual	
		PLT Solas - Test report (Cyclic tests, low and high temperatures and launching tests)	2018-04-28
26-00	1.0	PLT Solas - Projectile	2018-04-25
24-05-00	1.0	PLT Solas - Air cylinder cover	2018-04-24
24-04-00	1.0	PLT Solas - Grip	2018-04-25
24-03-00	1.0	PLT Solas - Trigger valve	2018-04-24
24-02-00	1.1	PLT Solas - Regulator	2018-05-03
24-01-00-1	1.0	PLT Solas - Main unit	2018-04-25
24-00-00	1.0	PLT Solas - Base unit, overview	2018-04-25

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80) and IMO Res. MSC.226(82).

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.