



Marine & Offshore

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This certificate is not valid when presented without the full attached schedule
composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2020/1170 of 16 July 2020

This certificate is issued to:

LINGJACK ENGINEERING WORKS PTE LTD

Singapore - SINGAPORE

for the type of product

NON-PORTABLE AND TRANSPORTABLE EXTINGUISHERS

COMBAT/LINGJACK 50 L FOAM CARTRIDGE OPERATED TRANSPORTABLE WHEELED FIRE EXTINGUISHER
TYPE C-50FTC

COMBAT/LINGJACK 135 L FOAM CARTRIDGE OPERATED TRANSPORTABLE WHEELED FIRE
EXTINGUISHER TYPE C-135FTC

Requirements:

SOLAS 74 convention as amended, Regulations II-2/4, II-2/10, X/3

IMO Res. MSC.98(73) -(FSS Code)- as amended by MSC.206(81), MSC.217(82), MSC.292(87), MSC.311(88), MSC.327(90) and MSC.339(91), 4

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7

EN 1866-1:2007

EN 1866-2:2014

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


This certificate will expire on: 02 Aug 2026

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV SINGAPORE, on 02 Aug 2021,

Shivananda Upadhya



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 II 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 Marine & Offshore. 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 Marine & Offshore 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 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 Marine & Offshore 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 :

COMBAT/LINGJACK 50 L FOAM CARTRIDGE OPERATED TRANSPORTABEL WHEELED FIRE EXTINGUISHER TYPE C-50FTC

COMBAT/LINGJACK 135 L FOAM CARTRIDGE OPERATED TRANSPORTABEL WHEELED FIRE EXTINGUISHER TYPE C-135FTC

TYPE	C-50FTC	C-135FTC
Capacity	50 L	135 L
Medium	1% of Total Volume of SC-6	1% of Total Volume of SC-6
Propelling gas	CO ₂ , 1 kg (Cartridge)	CO ₂ ; 3 Kg (Cartridge)
Total Weight	95 kg	205 Kg
Temperature Range of Use	5°C to 60°C	5°C to 60°C
Discharge Time	75 s	175 s
Test pressure (PT) (cylinder)	28 bar	28 bar
Pressure at maximum operating pressure (PTmax)	19 bar	19 bar
Hose length	12100 mm	12100 mm
Overall Height	995 mm	1337 mm
Overall width / depth	530 / 550 mm	636 / 690 mm
Fire Class	IVB (317B)	IVB (317B)

Other materials and/or components:

Cylinder	Steel
Hose	Rubber
Siphon Tube	PVC
Discharge Tube	Steel
Valve assembly	Brass
Discharge Gun	PVC
Cartridge	Iron
Cartridge holder	Steel
Trolley	Steel

2. DOCUMENTS AND DRAWINGS :

2.1 - Design drawings:

C-50FTC

ASSEMBLY DRAWING	21805300 Issue A02 dated 19/01/2019
VALVE ASSEMBLY	03001706 Issue C02 dated 25/03/2014
50 KG CYLINDER WITH 16IN WHEEL	03067206 A02 dated 30/01/2019
FOAM CONTROLLABLE DISCHARGE GUN	03079206 Issue A00 dated 05/09/2011
SIPHON TUBE	03237780 A00 dated 03/12/2013
DISCHARGE TUBE	03237779 dated 03/12/2013
HOSE	03003303 Issue A01 dated 23/04/2014
HIGH PRESSURE HOSE	03003207 A01 dated 23/04/2014
PROPELLANT GAS CARTRIDGE	03191503 A00 dated 01/12/2011
CARTRIDGE HOLDER	03237773 Issue A00 dated 04/10/2013

C-135FTC

ASSEMBLY DRAWING	21805600 Issue A02 dated 19/01/2019
VALVE ASSEMBLY	03001706 Issue C02 dated 25/03/2014
135L CYLINDER WITH 16IN WHEEL	03098801 Issue B02 dated 30/01/2019,
FOAM CONTROLLABLE DISCHARGE GUN	03079206 Issue A00 dated 05/09/2011
SIPHON TUBE	03237786 A00 dated 03/12/2013
DISCHARGE TUBE	03237785 A00 dated 03/12/2013
HOSE	03003303 Issue A01 dated 23/04/2014
HIGH PRESSURE HOSE	03003207 Issue A01 dated 23/04/2014
PROPELLANT GAS CARTRIDGE	03191701 Issue A00 dated 05/09/2011
CARTRIDGE HOLDER	03237774 Issue A00 dated 25/02/2016

2.2 - Installation, operation and maintenance instructions:

As per Manufacturer's document N° LJS-IOM-101 rev. B dated 05/08/2016.

2.3 - Safety datasheets for the extinguishing media:

MSDS SC-6 dated 05/07/2020 from Orchidee Europe BVBA.

Orchidee Statement SC-6 Inilam AX dated October 2020.

3. TEST REPORTS :**C-50FTC:**

3.1 - Test report N°277287 dated 29/06/2012, as per EN 1866-1:2007 from BRE Global Ltd, UK.

3.2 - Test report N°P112679 Issue: 1 dated 27/02/2019 as per EN 1866-2:2014 from BRE Global Ltd, UK.

C-135FTC:

3.3 - Test report N°277289 dated 29/06/2020, as per EN 1866-1:2007 from BRE Global Ltd, UK.

3.4 - Test report N°P112679 Issue: 1 dated 27/02/2019 as per EN 1866-2:2014 from BRE Global Ltd, UK.

FOR ALL:

3.5 - Declaration of conformity order confirmation n°34627dated 04/10/2017 from BERSTSCHEIBEN SCHLESINGER.

3.6 - TPED certificate n°0036-087-14 Rev.0 dated 14/10/2014 from TUV SUD INDUSTRIE SERVICE GMBH.

4. APPLICATION / LIMITATION :

4.1 - Manufacturer's instruction for maintenance and recharging the extinguishers should be kept on board.

4.2 - The extinguishers are to be installed according to manufacturer's instructions.

4.3 - Not suitable for use on live electrical equipment.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - 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 module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - Inspections and tests shall be carried out according to EN 1866-2:2014.

6. MARKING OF PRODUCT :

As per EN 1866-1 paragraph 6.9 and EN 1866-2 paragraph 7.4:

- 1 - Model designation including "Fire extinguisher" or "Extinguisher" plus medium
- 2 - Type of extinguishing medium and the nominal charge
- 3 - Fire ratings
- 4 - Instructions with pictograms and pictograms representing the type of fires
- 5 - Restrictions and dangers of use particularly in relation to toxicity and electrical risk, and following information:
"Not suitable for the use on live electrical equipment"
- 6 - Following instruction: "Refill after any operation; check periodically and only use products and spare parts in conformity with the agreed model for refilling and maintenance".
- 7 - Identification of propellant gas and quantity
- 8 - Numbers(s) or reference(s) relating to the approval of the extinguisher
- 9 - Operating temperature range
- 10 - Reference to the European Standard EN 1866-1:2007
- 11 - Name and address of the manufacturer and/or supplier
- 12 - Test Pressure
- 13 - Maximum allowable pressure *PS*
- 14 - Maximum filling mass in kg
- 15 - Tare in kilogram including permanently attached accessories
- 16 - Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits)

7. OTHERS :

7.1- It is **LINGJACK ENGINEERING WORKS PTE LTD**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate is the renewal of the EC Type Examination Certificate N°0832-MED-1069 issue 2 issued on 23/01/2020 by BRE Global Ltd.

*** END OF CERTIFICATE ***