



Marine &amp; 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) 2021/1158 of 22 June 2021

This certificate is issued to:

**LINGJACK ENGINEERING WORKS PTE LTD**

Singapore - SINGAPORE

for the type of product

**NON-PORTABLE AND TRANSPORTABLE EXTINGUISHERS**

COMBAT / LINGJACK, 20KG CO2 STORED PRESSURE TRANSPORTABLE WHEELED FIRE EXTINGUISHER  
TYPE C-20C

### 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 1866-3:2013 (CO2 fire-extinguisher)

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 29 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 20 KG CO2 TRANSPORTABLE WHEELED FIRE EXTINGUISHER TYPE C-20C**

Capacity (CO2 Gas)	20 kg
Total Weight	90 kg
Temperature Range of Use	-20°C to 60°C
Discharge Time	44 s
Test pressure (PT) (cylinder)	300 bar
Pressure at maximum operating pressure (PTmax)	<147.4 bar @60°C
Storage Pressure	< 60 bar
Hose length	6330 mm
Overall Height	1430 mm
Overall width / depth	607 mm
Fire Class	89B

#### **Other materials and/or components :**

Cylinder	Alloy Steel
Hose	Rubber
Valve assembly	Copper alloy
Squeeze Lever Controllable valve	Brass
Horn	PVC
Trolley	Mild steel

### **2. DOCUMENTS AND DRAWINGS :**

#### **2.1 - Design drawings:**

ASSEMBLY DRAWING	20802329 Issue B dated 29/09/2019
VALVE ASSEMBLY	03001501 Issue B dated 10/10/2014
SQUEEZE LEVER CONTROLLABLE VALVE	03130200 Issue A dated 02/01/2014
CYLINDER	03004301 Issue B dated 21/04/2018
DIP TUBE	03038401 Issue A00 dated 02/12/2011
HOSE	03003200 dated 25/11/2019
HORN	03000404 Issue A dated 30/07/2012
TROLLEY C/W 16" WHEEL	03023909 Issue A dated 30/07/2012

#### **2.2 - Installation, operation and maintenance instructions:**

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

### **3. TEST REPORTS :**

3.1 - Test report N°280614 dated 30/08/2012, as per EN 1866-1:2007 from BRE Global Ltd, UK.

3.2 - Test report N°P112679 C-20C C-30C Issue: 1 dated 18/12/2019 as per EN 1866-3:2013 from BRE Global Ltd, UK.

3.3 - TPED Certificate of the cylinder n°0036-008-20 Rev. 0 dated 21/02/2020 from TUV SUD INDUSTRIE SERVICE GMBH.

3.4 - Conformity of the valve with EN 1866-3:2013:

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

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

**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.

**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 1866-3:2013.

**6. MARKING OF PRODUCT :**

As per EN 1866-1 paragraph 6.9 and EN 1866-3 paragraph 7.2.3.3:

- 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.
- 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 supersedes EC Type Examination Certificate N°67235/A0 MED issued on 02/08/2021 by the Society and 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 \*\*\*