

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB000007J**  
Revision No:  
**6**

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 Release mechanism for lifeboats and rescue boats (launched by a fall or falls)**

with type designation(s)  
**DIB 32**

Issued to  
**Norsafe AS**  
**FÆRVIK, Norway**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2018/773**,  
**item No. MED/1.26a. SOLAS 74 as amended, Reg. III/4, III/16, III/34 & X/3, LSA Code and 2000 HSC Code 8**

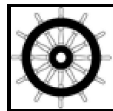
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-05-21**.

Issued at **Høvik** on **2019-05-22**

DNV GL local station:  
**Kristiansand S**

Approval Engineer:  
**Xiao Long Eric Song**



Notified Body  
No.: **0575**



for **DNV GL AS**  
Digitally Signed By: Malleucci, Aldo  
Location: DNV GL Høvik, Norway  
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-004049-8**  
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## Product description

- Lifeboat release hook with:
    - Safe Working Load, SWL = 32 kN
- Version I: without bracket  
Version II: with standard straight brackets  
Version III: with standard bended brackets

## Application/Limitation

- Grades of materials as stated on the drawings shall be delivered with certificates.
- The various components transferring the load like wires, shackles etc. shall comply with international standard or code and shall be delivered with Manufacturer's certificate, confirming a safety factor of minimum 6 compared to the sustained load.
- Support to hull structure is not included in this examination and shall be evaluated separately.
- The hook system has been evaluated in line with the LSA Code as amended, including IMO Res. MSC.320(89) & MSC.321(89).

## Type Examination documentation

<b>Drawing No.</b>	<b>Rev.</b>	<b>Title</b>
455001	Ac	455001 House DIB 32 Mach
455003	Ac	455003 Cylinder DIB 32- Mach
455005	c	455005 Plunger DIB 32 - Mach
455006	Ah	455006 Pawl DIB 32
455007	b	455007 Pinshaft DIB 32
455008	b	455008 Piston DIB 32
455009	c	455009 Piston Rod DIB 32
455010	18-02-2014	455010 Piston Sleeve DIB 32 $\varnothing 36,2 \times \varnothing 39$ L52
455011	c	455011 Ball with eye DIB 32
455012	c	455012 System DIB 32 Assembly
	21-02-2014	Funktionsbeskrivelse DIB 32 DNV juni 2013
	29-04-2013	Hyd_Sys.l_00101
455080	21-02-2014	455080 DIB E_schematic
	2013-07-12	Mathcad - DibLigth DIB 32
1040-13-001	20-09-2013	Watersensor Housing 1040-13-001
		Vegaswing 51 Class approvals sensor
		Bedia CLS 5x water sensor
	2015-03-27	General information
	2015-03-27	Calculation of DIB 32 bracket connection to keel shoe
	2015-03-27	Calculation of DIB32 hook connections to bracket
1510-3200-000	0	Agreed bracket plate geometry
1510-3200-001	0	Br. Plate PARAMETERS of bending
1510-3200-002	0	Bended Br. Plate e250-e150 TEST
BBD-1531-3200-001		Bended Installation Brackets DIB32, Stress Analysis Report

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455048	Aa	DIB32 Single Point Solas Hydraulic Diagram
455049	Aa	DIB32 Dual Point Solas Hydraulic Diagram
		Technical specs - HPU components
	01.12.2016	Electric HPU DIB 32-75-125 data sheet - 24V version
	01.12.2016	Electric HPU DIB 32-75-125 data sheet - 12V version
	01.12.2016	DIB 32-75-125 electrical pump description
459902	0	DIB 32-75-125 EI schematic HPU

## Tests carried out

Prototype tested in accordance with IMO Resolution MSC.81(70) Part 1.

<u>Description</u>	<u>Date(s)</u>	<u>Witnessed by:</u>
Original prototype test (Version I)	2014-03-06	DNV GL Fredericia, Denmark
Additional tests for water sensor (Bedlia CLS)	2015-03-16	DNV GL Fredericia, Denmark
Additional tests for standard straight bracket connection (Version II)	2015-06-08	DNV GL Fredericia, Denmark
Additional tests for standard bended bracket connection (Version III)	2015-08-18	DNV GL Fredericia, Denmark
Additional tests regarding modified pawl	2015-12-14	DNV GL Fredericia, Denmark
	2015-12-21	
Functional test with electric HPU	2016-12-08	DNV GL Fredericia, Denmark

## Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9 and the Directive.

- Type designation, manufacturer name and serial number
- Maximum Working Load, SWL

## End of certificate