

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00000UK
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Winches for survival craft and rescue boats: (e) fast rescue boats

with type designation(s)
ZR 4.15

Issued to

Zollern GmbH & Co. KG
Herbertingen, Germany

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

Regulation **MSN 1874 Amendment 9**,

item No. UK/1.41e. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/34, X/3, LSA Code and 2000 HSC Code

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

This Certificate is valid until **2026-01-26**.

Issued at **London** on **2024-11-13**

DNV local unit:
Hamburg - CMC
North/East

Approval Engineer:
Frank Poetsch



Approved Body No.: **0097**

for **DNV UK Ltd.**

Christine Mydlak-Roeder
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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 300,000 USD.

Product description

Winch for survival craft and rescue boats: fast rescue boat winch type ZR 4.15

Application/Limitation

Rope load at the drum (3.layer):	28,0kN
Holding force at the drum (3.layer):	28,0kN
Ratio:	28,55 : 1
Rope – ø:	13mm
Hydr. Motor:	A6VM
Drum – ø:	260mm (grooved drum)
Layer:	3
Safety turns:	3
Working temp.:	-15°C to +40°C (LSA code)

Type Examination documentation

Is based on the following drawings and verified with GL Ref. no. 15-061795/FPOE dd. 2015-09-02

DWG	Rev.	Title
1395887 2/2		Rope winch ZR 4.15 EG, Stop and Go, Wave compensatio0n device
60241500508		Rope drum, EN-JS1025 / EN-GJS-400-18-LT
1039253 2/2		Planetary carrier
60241500577		Bearing ring
60241500421		Bearing Flange
2 4. 15 00698		Flansch
60241500620		Selector shaft
60241500679		Winch support

Tests carried out

- according to IMO Resolution MSC.81(70), amended up to MSC.323(89), Part 1, Regulation 8.1.
- Type Test Report No / Serial No 102, dd 2016-01-21 (ZR 4.15 / dwg. 1395887)
 - DNVGL Cert No: 31458 AB dd 2016-02-26

Marking of product

The winches are to be marked with manufacturer name, type designation, UK Mark of Conformity (see page 1).

END OF CERTIFICATE