

EC Type-Examination (module B) Certificate

Directive on Marine Equipment Certificate No.: 0200-MarED-06038 version 3

This is to certify that: FORCE Certification A/S did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the appendix attached hereto.

Manufacturer: **Mullion Survival Technology Ltd.**
Sioen NV head office
Fabriekstraat 23
8850 Ardooie
Belgium

Directive Reference: **MED Directive 2014/90/EU, Regulation (EU) 2023/1667**

Product designation: **HI-RISE 275 SOLAS**

Regulation item: **MED/1.4 – Row 2 of 2**

Product type: **275 N Twin Chambered Inflatable Lifejacket**

Specified standard(s): **LSA code MSC.48(66) adopted on 4th of June 1996, MSC.81(70) adopted on 11th of December 1998 & MSC.481(102) adopted on 9th of November 2020**

Amendments to LSA code: MSC.207(81) adopted on 18 May 2006
MSC.368(93) adopted on 22 May 2014

Amendments to testing methods: MSC.200(80) adopted on 13 May 2005
MSC.226(82) adopted on 8 December 2006
MSC.323(89) adopted on 20 May 2011
MSC.378(93) adopted on 18 May 2014

The attached appendix forms a part of this certificate. Documentation for observance of relevant requirements and the basis for the type-examination are described in the appendix to this certificate. This certificate will remain valid unless suspended, expired or withdrawn, provided the conditions in the attached appendix are complied with. The manufacturer shall inform FORCE Certification A/S of any contemplated changes.

This certificate replaces the former version 2 dated 2019-04-02 due to renewal. Existing products conforming to the previous version of this certificate remain valid.

Date of issue: 2023-11-30

Date of expiry: 2028-11-30



Kasper Munk Eliassen
Certification Manager



Jonas Lesak Jensen
Examiner

FORCE Certification A/S task No.: **123-28473** / Certificate ID: **0200-MarED-06038-3**

Note 1: The certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity may only be issued when the production-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Note 4: Status of this certificate can be verified on www.forcecertification.com. This EU Type-Examination Certificate is the property of FORCE Certification A/S. Extracts of this certificate may only be reproduced with a written permission from FORCE Certification A/S.

Appendix to EC Type-Examination Certificate

Directive on Marine Equipment (Module B)

Certificate No.: 0200-MarED-06038 version 3
Issued by FORCE Certification A/S - EU-notified body number 0200

Manufacturer: **Mullion Survival Technology Ltd.**
Sioen NV head office
Fabriekstraat 23
8850 Ardoorie
Belgium

Directive Reference: **MED Directive 2014/90/EU, Regulation (EU) 2023/1667**

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MSC.323(89) adopted on 20 May 2011
MSC.378(93) adopted on 18 May 2014

Photo of product:



"HI-RISE 275 SOLAS" with breakout zipper & stainless steel 2/3 Bar buckle closure in two different cover variants



"HI-RISE 275 SOLAS" - Inflated

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Options & variants:

Inflator options:

1. Hammar - MA1 (Auto/Manual)
2. Halkey Roberts - V90000 Alpha (Auto/Manual)
3. Halkey Roberts - V95000 1F - (Auto/Manual)
4. United Moulders - MK5 (Auto/Manual)
5. United Moulders - UMA8000-8056 – ProSensor Elite (Auto/Manual)

Inflators 2-5 are required to be fitted with a cylinder retainer device.

Protective cover fabric options:

with PU coated polyamid or PU coated PES with optional PVC reinforcement.

Waist Belt Closure Options:

1. Marine grade stainless steel 2/3 Bar buckle closure (Versions with decksafety harness)
2. Makefast 0650 Plastic buckle closure

EN ISO 12401 deck safety harness (DSH) Options:

1. Product Ref: DSH Type 5 (for component parts see technical file TYPE 5)
2. Product Ref: DSH Type 6 (for component parts see technical file TYPE 6)
3. Product Ref: DSH Type 7 (for component parts see technical file TYPE 7)
4. Product Ref: DSH Type 8 (for component parts see technical file TYPE 8)
5. Product Ref: DSH Type 12 (for component parts see technical file TYPE 12)

Sprayhood option:

1. Option 1 – Mullion Sprayhood with press studs & grap straps
2. Option 2 – Optional alternative with lighter weight & rip-stop fabric
3. Option 3 – Optional alternative with fitting position closer to head

Variant names (Marketed as):

1. HI-RISE 275 ULTRAFIT
2. HI-RISE SPRAYHOOD
3. HI-RISE 275 MOB1
4. HI-RISE 275 M100
5. HI-RISE 275 SAFELINK SOLO
6. HI-RISE FastFind 220
7. HI-RISE 275 ResQLink
8. HI-RISE 275 SMRT
9. HI-RISE 275 DIVANSI
10. HI-RISE 275 EASY RESCUE
11. HI-RISE 275 Kannad R10
12. HI-RISE McMurdo S20
13. HI-RISE 275 PLB1
14. HI-RISE 275 MOBUS
15. HI-RISE 275 ACR ResQLink 400 / 425 view
16. HI-RISE 275 Fastfind Return Link

Note: Further details on approved variations can be seen in the technical file stored at FORCE Certification A/S

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Approval documentation:

Documentation for observance of relevant requirements stated in the applied standard(s):

Test house	Report No.:	Testing/Inspection of:
Fleetwood Testing Laboratory	BLS/FTL/2249	Original type testing of HI-RISE 275 acc. to MSC.81(70). Tested in combination with inflation mechanisms: Halkey Roberts V9000 Alpha Automatic Inflator, UML MK5 Automatic Inflator, UML Pro Sensor Automatic Inflator, Hammar MA1 EC Automatic Inflator & Hammar A1 Automatic Inflator.
Fleetwood Testing Laboratory	JH/FTL/2983a	Supplementary testing of model HI-RISE 275N with alternative cover shape (ULTRAFIT) in accordance with MSC.81(70).
Fleetwood Testing Laboratory	JH/FTL/2950	Supplementary compatibility testing of model HI-RISE 275N with PLD Ocean Signal M100 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2887	Supplementary compatibility testing of model HI-RISE 275N with PLD SMRT AU9 Beacon in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2865	Supplementary compatibility testing of model HI-RISE 275N with PLD rescueME MOB1 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2844	Supplementary compatibility testing of model HI-RISE 275N with PLD ResQLink beacon in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2654d	Supplementary compatibility testing of model HI-RISE 275N with PLD SMRT AU10 Beacon in accordance with ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2802	Supplementary compatibility testing of model HI-RISE 275N with PLD Kannad Safelink solo 220 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	SLF/FTL/2603	Supplementary compatibility testing of model HI-RISE 275N with PLD DIVANSI MOB Beacon in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	SLF/FTL/2654c	Supplementary compatibility testing with PLD SMRT V100 beacon in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DK/FTL/2446b rev. 1	Supplementary compatibility testing of model HI-RISE 275N with PLD Safelink R10 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DK/FTL/2506	Supplementary compatibility testing of model HI-RISE 275N with PLD EASY RESCUE in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DK/FTL/2446a	Supplementary compatibility testing with PLD SOS AU9 & lifejacket lights L6A from Daniamant & Sea Flash from UML in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2654d	Supplementary compatibility testing of model HI-RISE 275N with PLD SOS AU10 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DK/FTL/2446	Supplementary compatibility testing of model HI-RISE 275N with Sprayhood option 1 in accordance with ISO 12402-8: 2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2774c	Supplementary compatibility testing of model HI-RISE 275N with Sprayhood option 2 in accordance with ISO 12402-8: 2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2837a	Supplementary compatibility testing of model HI-RISE 275N with Sprayhood option 3 in accordance with ISO 12402-8: 2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2774b	Supplementary compatibility testing of model HI-RISE 275N with Sprayhood option 4 in accordance with ISO 12402-8: 2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2450	Supplementary load testing of model HI-RISE 275N with alternative Makefast 0650 plastic waistbelt buckle closure in accordance with MSC.81(70).
Fleetwood Testing Laboratory	DB/FTL/3187 Issue 2	Supplementary compatibility testing of model HI-RISE 275N and type identical models with PLD model rescue me PLD1/PLB1 & MOB1 in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DB/FTL/3163	Supplementary testing of model HI-RISE 275N with additional inflator model Halkey Roberts F1 (Pro 1F Hydro) & lifejacket LED lights from Alcares in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
DGUV Test	19 0201-1	Supplementary compatibility testing of model HI-RISE 275N with PLD model MOBOS in accordance with ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DB/FTL/3269A	Supplementary compatibility testing of model HI-RISE 275N with ACR ResQLink 400 / 425 view PLB in accordance with ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DB/FTL/3212	Supplementary compatibility testing of model HI-RISE 275N with Fastfind Return Link in accordance with MSC.81(70) & ISO 12402-9:2006+A1:2011.
DGUV Test	21 1 0391	Supplementary compatibility testing of HI-RISE 275N with Lonako light and HR cylinder bracket in accordance with ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2802a	Supplementary load testing of model HI-RISE 275N with alternative metal hardware from Ningbo Yunhai in accordance with ISO 12402-7:2006/A1:2011.
Fleetwood Testing Laboratory	RS/FTL/3033	Supplementary testing of type identical inflatable lifejacket model Hi-Tide 275N with deck safety harness "Type 5", variant 4, according to EN ISO12401:2009
Fleetwood Testing Laboratory	RS/FTL/3057	Supplementary testing of type identical inflatable lifejacket model Hi-Tide 150N, with deck safety harness "Type 6", according to EN ISO12401:2009
Fleetwood Testing Laboratory	JH/FTL/3045	Supplementary testing of inflatable lifejacket 150N private label model Mul01, with deck safety harness "Type 7", according to EN ISO12401:2009.
Fleetwood Testing Laboratory	DB/FTL/3094	Supplementary testing of inflatable lifejacket model hi-RISE 275, with deck safety harness "Type 8", according to EN ISO12401:2009.
DGUV Test	22 1 0050-1 rev. 1	Supplementary drop testing of type identical inflatable lifejacket model Hi-Rise 275, with deck safety harness "Type 12", according to EN ISO12401:2009.

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Issued by FORCE Certification A/S - EU-notified body number 0200

Place(s) of production:

Where the equipment is manufactured or assembled:

Company:	Activity:	Address:
SC SIOROM SRL	Full production	43 Calea Chisinaului, Incinta Tehnoton Iasi 700179, Romania

Technical documentation:

The following documentation was available

- Description/drawings: Included in technical file "TF - HI-RISE 275", issue no 8, April 2022.
 - Specifications of sub-components:
 - Information on materials/components and suppliers:
 - Marking and user info:
- Description of the manufacturer's quality system: ISO 9001 approved.
- List of materials and sub-suppliers: Acc. to material list in chapter 5 of the technical file. Current list of approved components "GF V15-List of comp – Assembly, Bladder & Cover" stored at FORCE Certification A/S shows references to relevant documentation on required testing.

Note: Documentation for used retro-reflective materials did not refer MSC.481(102) adopted on 9th of November 2020, but the former IMO Res. A658(16). The requirements were assessed to be identical.

History:

Issue/change:	Certificate No.:	Certificate ID:	Task No.	Issue date:
- Original certificate	0200-MarED-06038 version 1	06038	119-24249	2019-03-26
- Addition of variants	0200-MarED-06038 version 2	06183	119-24249	2019-04-02
- Renewal	0200-MarED-06038 version 3	0200-MarED-06038-3	123-28473	2023-11-30

Information: The device has previously been certified to MarED by ABS, UK. Certificate No. 10-LD660961-3-EC

Conclusion:

Based on the above-mentioned attestation it can be concluded that the equipment, designated "HI-RISE 275 SOLAS", was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU as amended, last amended by Regulation (EU) 2023/1667.