

EC Type-Examination (module B) Certificate

Directive on Marine Equipment

Certificate No.: 0200-MarED-06039 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 150 SOLAS
Regulation item:	MED/1.4 – Row 2 of 2
Product type:	150 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

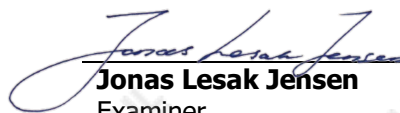
The attached appendix forms a part of this certificate. Documentation for observance of relevant requirements and the basis for the type-examination are described in the appendix to this certificate. This certificate will remain valid unless suspended, expired or withdrawn, provided the conditions in the attached appendix are complied with.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: 2024-01-18
Date of expiry: 2029-01-18



Allan Laursen
Certification Manager



Jonas Lesak Jensen
Examiner

FORCE Certification A/S task No.: **123-28473** / Certificate ID: **0200-MarED-06039-3**

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-06039 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
Product designation:	HI-RISE 150 SOLAS
Regulation item:	MED/1.4 – Row 2 of 2
Product type:	150 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

Photo of product:



"HI-RISE 150 SOLAS" with breakout zipper & stainless steel 2/3 Bar buckle closure in two different cover variants

Appendix to EC Type-Examination Certificate

Directive on Marine Equipment (Module B)

Certificate No.: 0200-MarED-06039 version 3

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

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 & Manual)

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

Protective cover fabric options:

with PU coated Cordua- & Panotex covers or in In FR AST (Flame Retardant Anti-Static) versions.

Waist Belt Closure Options:

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

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 150
2. HI-RISE 150 SPRAYHOOD
3. HI-RISE 150 DIVANSI
4. HI-RISE 150 Kannad R10
5. HI-RISE 150 McMurdo S20
6. HI-RISE 150 Fastfind Return Link

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

Appendix to EC Type-Examination Certificate

Directive on Marine Equipment (Module B)

Certificate No.: 0200-MarED-06039 version 3
Issued by FORCE Certification A/S - EU-notified body number 0200

Place(s) of Production:

Final assembly	Activity	Address
- SC SIOROM SRL	Full production	43 Calea Chisinaului, Incinta Tehnoton Iasi 700179, Romania

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

Test house	Report No.:	Testing/Inspection of:
Fleetwood Testing Laboratory	BLS/FTL/2348 issue 2	Compleat type testing of inflatable lifejacket model Hi-Rise 150 against Resolution MSC.81(70)
Fleetwood Testing Laboratory	JH/FTL/2348a issue 3	Complete type testing of inflatable lifejacket model Hi-Rise 150 Single chamber acc. to EN ISO 12402-3/6:2006+A1:2010. Testing of versions with inflators UML MK5 auto inflator, UML Mini Manual inflator, UML Pro Sensor CI Automatic and UML Pro Sensor SI Manual.
Fleetwood Testing Laboratory	DK/FTL/2450 Issue 2	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with Makefast 0650 Plastic buckle acc. to EN ISO 12402-3:2006+A1:2010.
Fleetwood Testing Laboratory	BLS/FTL/2348b	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with Hammar MA1 inflation system acc. to MSC.81(70) & MSC.200(80) & rotating shock bin testing acc. to EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	NW/FTL/3044	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with Halkey Roberts Manual 840 Inflator acc. to EN ISO 12402-3:2006+A1:2010.
Fleetwood Testing Laboratory	DK/FTL/2446	Supplementary testing of inflatable lifejacket model Hi-Rise 150 & 275 with Spray Hood (option 1) acc. to EN ISO 12402-8:2006+A1:2011
Fleetwood Testing Laboratory	RS/FTL/2774c	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with amended Spray Hood design (option 2) acc. to EN ISO 12402-8:2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2837a	Supplementary testing of type identical inflatable lifejacket model Helios 275N with Apeks emergency breathing sytems (EBS) acc. to EN ISO 12402-8:2006+A1:2011 (Due to amended Spray Hood design (option 3)).
Fleetwood Testing Laboratory	SLH/FTL/2603	Supplementary compability testing of inflatable lifejacket models Hi-Rise 150, Compact 150, Hi-Tide 150, Hi-Rise 275 and Seaforce II 275 with DIVANSI MOB Beacon acc. to MSC.81(70), MSC.200(80) & EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	RS/FTL/2446b	Supplementary compability testing of inflatable lifejacket model of lifejacket models Hi-Rise 150, Hi-rise 275 SOLAS, Compact 150 with Safelin/Kannad R10/McMurdo S20 PLB acc. to MSC.81(70), MSC.200(80) & EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DB/FTL/3163	Supplementary testing of inflatable lifejacket models Hi-Rise 150 (And additional models – see test report) with inflators UML Micro Manual inflator, UML Pro Sensor Elite Manual (PSE Manual), Halket Roberts Pro 1F Hydro & Halkey Roberts V87000M Manual acc. to MSC.81(70), MSC.200(80) & EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	DB/FTL/3212	Supplementary testing of inflatable lifejacket model Hi-Rise 150 (And additional models – see test report) with Fastfind Return Link PLB acc. to MSC.81(70), MSC.200(80) & EN ISO 12402-9:2020.
DGUV Test	21 1 0391	Supplementary testing of inflatable lifejacket model Hi-tide & Hi-Rise 150 with Lonako light SL2W and HR cylinder bracket acc. to EN ISO 12402-9:2020.
Fleetwood Testing Laboratory	NW/FTL/2975b	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with UML pro Sensor Elite inflators acc. to acc. to MSC.81(70), MSC.200(80) & EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	BLS/FTL/2668	Supplementary testing of inflatable lifejacket model Hi-Rise 275 & Compact 150 with PU coated Cordua- & Panotex covers acc. to EN ISO 12402-9:2006+A1:2011.
Fleetwood Testing Laboratory	JH/FTL/2802a	Supplementary testing of type identical inflatable lifejacket model Hi-Rise 275 with metal Hardware from NINGBO YUNHAI acc. to EN ISO 12402-9:2006+A1:2011.
SATRA Technology	SPC0262467/1739/1	Supplementary testing of inflatable lifejacket model Hi-Rise 150 with deck safety harness "Type 5", variant 1-3, according to EN ISO12401:2009.
	SPC0262467/1739/2	
	SPC0262467/1739/3	
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.
FORCE Technology	123-33350.b	Supplementary In-water performance testing of Hi-Rise SOLAS 150 with one female test subject with a height of more than 180 cm and a weight of more than 80 kg in order to meet amended test subject requirements in resolution MSC.378(93).

Note: See "Review of test reports - HI-RISE 150" - Rev. 01 - 18/01/2024 in task 123-28473 for details on content.

Appendix to EC Type-Examination Certificate

Directive on Marine Equipment (Module B)

Certificate No.: 0200-MarED-06039 version 3

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

Technical documentation:

The following documentation was available

- Description/drawings: Included in technical file "TF - Hi-Rise 150" issue no. 7, October 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-06039 version 1	06039	119-24249	2019-03-26
- Editorial corrections	0200-MarED-06039 version 2	06184	119-24249	2019-04-02
- Renewal	0200-MarED-06039 version 3	0200-MarED-06039-3	123-28473	2024-01-18

Conclusion:

Based on the above-mentioned attestation it can be concluded that the equipment, designated "HI-RISE 150 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.