

EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **0200-MarED-03927 version 3**

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

This is to certify that:

FORCE Certification A/S did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, last amended by Regulation (EU) 2018/773 subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer: **Viking Life-Saving Equipment A/S**
Sædding Ringvej
6710 Esbjerg V

Identification of Marine Equipment:

Product Type: **Fire Protection Equipment**
Item: **MED/3.3 Fire-fighter's outfit**
Product Designation: **PS65xxA Fire fighter suit**
PS65xxC Fire fighter suit
PS84xx Fire fighter suit
Specified Standard: **EN 469:2005+A1:2006/AC:2006**

The examined samples were found to fulfill the requirements of the applicable reg. SOLAS 74 as amended, and as specified in Regulation (EU) 2018/773, item MED/3.3. Documentation for observance of relevant requirements stated in ANNEX II (Module B) of the Directive and the provisions of IMO Res. MSC 98(73) – (fss Code) 3, together with the basis for the type examination are described in the appendix to this certificate.

This certificate will remain valid unless cancelled or revoked, provided the conditions in the attached appendix are complied with and the equipment remains satisfactory in service. 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.

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.

This is an update of EC-Type Examination Certificate DK-0200-MarEd-03927 version 2 due to addition of a new model. Existing products conforming to the previous certificate are still valid.

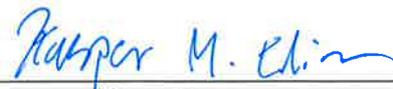
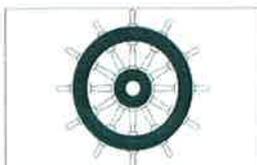
FORCE Certification A/S task No.: 118-34371/ ID. No. 05596

Date of issue: 2019-03-12

Date of expiry: 2024-03-12



Søren Bo-Jensen
Certification manager



Kasper Munk Eliassen
Examiner

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/product assessment module (D, E or F), ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Appendix to EC Type-Examination Certificate

Directive for Marine Equipment

Certificate No.: 0200-MarED-03927 version 3

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

Applicant and Manufacturer: Viking Life-Saving Equipment A/S
Sædding Ringvej
6710 Esbjerg V

Identification of Marine Equipment:

Product Type: Fire Protection Equipment

Item: MED/3.3 Fire-fighter's outfit

Product Designation: PS65xxA Fire fighter suit
PS65xxC Fire fighter suit
PS84xx Fire fighter suit

Suit consisting of jacket and trousers, or a coverall.

Jacket and trousers must be worn at the same time to attain protection.

Design:

Jacket style J1



Jacket style J2



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Design (continued):

Trousers style T1



Trousers style T2



Style	Type of layer	Component assembly
PS65xxA	Outer fabric Thermal barrier Inner liner	Nomex Nxt 195 gr/m ² Ibena aramide fleece 175 gr/m ² Nomex/Viscose 125 gr/m ²
PS65xxC	Outer fabric Thermal barrier Inner liner	Aramide 100% 220 gr/m ² Ibena aramide fleece 175 gr/m ² Nomex/Viscose 125 gr/m ²
PS84xx	Outer fabric Moisture barrier Ibena aramide fleece 175 gr/m ² Nomex/Viscose 125 gr/m ²	Aramide 100% 220 gr/m ² Topaz PU 145 gr/m ² Ibena aramide fleece 175 gr/m ² Nomex/Viscose 125 gr/m ²

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History:

Issue/change:	Document:	Date:
- Original certificate	DK-0200-F.068	2004-08-10
- Alternative outer fabric, lining and thermal barrier combination	1st Supplement to appendix	2007-04-16
- Alternative outer fabric, lining and thermal barrier combination and new certificate identification No.	DK-0200-MarED-068 version 1	2008-06-02
- General designation PS65XX	DK-0200-MarED-068 version 2	2008-07-15
- Updating of materials, new expiry date	DK-0200-MarED-068 version 3	2011-07-22
- New Notified Body DNV – GL 0098, new certificate No.	60 707 – 13 HH	2015-12-02
- New Notified Body FORCE Certification A/S 0200	0200-MarED-03927 version 1	2018-06-27
- Update of amendment	0200-MarED-03927 version 2	2018-08-10
- Revision and new model PS84xx	0200-MarED-03927 version 3	2019-03-12

Manufacturer/Sub-supplier:

Manufacturer:	Viking Life-Saving Equipment A/S Sædding Ringvej 6710 Esbjerg V
Place(s) of production:	Omelia 4960 Rudozem, Region Smolian Bulgaria Viking Life-Saving Equipment LAEM CHABANG INDUSTRIAL ESTATE 20230 THAILAND

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Documentation for observance of the relevant requirements in EN 469:2005+A1:2006/AC:2006:

Clause:	Reports covering assembly PS65xxA:	Reports covering assembly PS65xxC/PS84xx:
6.1 Flame spread	Aitex 2015001604 CB 16.05546.01 CB 13.0676.01 CB 16.04896.01 CB 18.00079.01 CB 18.00079.02 CB 18.00079.03 CB 7067 0/B	CB 58885/B
6.2 Heat transfer, flame	CB 16.05546.01	CB 70670/B CB 16.04550.1
6.3 Heat transfer, radiation	CB 16.04664.01	CB 72197/D CB 70670/N
6.4 Residual tensile strength	Aitex 2015CO0981	CB 79668/D
6.5 Heat resistance	Aitex 2015CO0981 CB 16.04896.01 CB 18.00079.01 CB 18.00079.02 CB 18.00079.03	CB 58885 STFI 2016 0778 Hohenstein 13.0.21313
6.6 Tensile strength(s)	Aitex 2015CO0981 CB 15.02671.01	CB 58885
6.7 Tear strength	Aitex 2015CO0981	CB 58885
6.8 Surface wetting	Aitex 2015CO0981	CB 58885 CB 21220/C
6.9 Dimensional change	Aitex 2015CO0981	CB 58885 CB 16.05546.01 Hohenstein 13.0.21313
6.10 Liquid chemicals	CB 16.05885.01	CB 58885/C STFI 2016 1830
6.11 Water penetration	FT 118-23052.a	CB 16.06460.01
6.12 Water vapour	CB 16.04664.01	CB 13.01844.05 CB 72179/D
6.13 Ergonomics	FT 118-23052.b	FT 118-23052.b
6.14 Visibility	FT 118-23052.a FIOH 354276A01 FIOH 330987A01 FIOH 300432A01 FIOH 241741A01	FT 118-23052.a FIOH 354276A01 FIOH 330987A01 FIOH 300432A01 FIOH 241741A01
6.15 whole garment (optional)	Dupont E_20161118_2924	n.a.

CB = Centexbel; FT = FORCE Technology

Partial conclusion: The examined samples are found to fulfil the requirements in the applicable reg. SOLAS 74, as amended, and the International Testing Standard EN 469:2005+A1:2006/AC:2006 referred to in MED/3.3 as well as the requirements in ANNEX II, Module B of the directive.

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The following documentation was available:

"Technical specification, Fire fighter garment in acc. with EN 469:2005+A1:2006" dated 2018-12-12

List of materials/manufacturers used for
manufacturing the device:

See "List of Materials for DK-0200-MarED-03972"
valid on the date of production.

Conclusion

Based on the above-mentioned attestation it can be concluded that the fire fighter outfit designated PS65xxA, PS65xxC, and PS84xx, meet the conditions of EC type-examination in accordance with the Marine Equipment Directive (MED) 2014/90/EU last amended by Regulation (EU) 2018/773.

FORCE Certification A/S task No.: 118-34371

Date: 2019-03-12

A handwritten signature in blue ink, appearing to read "Kasper M. Eliasen", written over a horizontal line.

Kasper Munk Eliasen
Examiner