

EC Certificate

Type Examination (Module B)



This is to certify that:

Germanischer Lloyd, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No.	20 201 - 11 HH
Applicant	Jiaxing Rongsheng Lifesaving Equipment Co., Ltd No. 159, Yaojia Road, Wangdian Town, Xiuzhou District 314011 Jiaxing City, Zhejiang, CHINA
Manufacturer	Jiaxing Rongsheng Lifesaving Equipment Co., Ltd No. 159, Yaojia Road, Wangdian Town, Xiuzhou District 314011 Jiaxing City, Zhejiang, CHINA
Product Description	Firefighter's outfit: protective clothing (close proximity clothing).
Product Name	Firefighter's protective suit of type RSX-F
Trade Name	Firefighter's protective suit of type RSX-F
Specified Standards	EN 469: 2005 including A1:(2006) and AC:(2006).
Related Directive	2009/26/EC
Equipment Section	Fire protection
Annex A.1 Item No.	A.1/3.3
Date of Issue	2011-10-05
Expiry Date	2016-10-04

Germanischer Lloyd

Notified Body No.: 0098

Page 1 of 3



Nils Wegener



Certificate No: 20 201 - 11 HH Date of Issue: 2011-10-05

Schedule of Approval

Additional Standards

None.

Approval Documentation

Test report nos. 30/05610/1 and 30/05610/02 dated 16th June 2011 issued by BTTG Fire Technology Services, Altrincham, Cheshire, UK.

File no. 11-103962

Technical Data

Firefighter's protective suit of type RSX-F, Article No. 110008, comprising jacket, trousers, hood, gloves and overshoes, referenced:

Outer fabric: Aramid fabric with foil coating, 250 g/m²
(reflective face outwards facing)

Lining fabric: Aramid fabric with foil coating, 100 g/m²
(reflective face towards body)

The specimen was tested as follows:

FABRIC

Flame spread to EN ISO 150525:2002 Procedure A

Heat transfer -flame- to EN 367:1992

Heat transfer -radiation- to EN ISO 6942:2002, Method B at 40kW/m²

Residual strength EN ISO 6942: 2002 EN ISO 13034-1:1999, Method A 10kW/m²

Heat resistance / shrinkage ISO 17493:2000, 5 minutes at 180°C

Tensile strength (outer material) EN ISO 13934-1:1999

Tensile strength (seamed outer) EN ISO 13935-2:1999

Tear strength EN ISO 13937-2:2000 Method B

Surface wetting after pre-treatment EN 24920: 2002

Resistance to penetration by liquid chemicals to ISO 6530: 2005

40% NaOH

36% HCl

30% H₂SO₄

100% O-xylene

Resistance to water penetration (moisture barrier) EN 20811:1992 (1996)

Resistance to water penetration (seamed specimen) EN 20811:1992 (1996)

Water vapour resistance EN 31092:1993

GARMENT DESIGN AND CONSTRUCTION

Clothing design EN 469:2005

Ergonomics and sizes EN469:2005

Labelling EN 469:2005

Information for use EN 469:2005

Evaluation:

Pass

LEVEL Xf1

LEVEL Xr2

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

LEVEL Y2

LEVEL Y1

LEVEL Z1

Pass

Pass

Pass

Pass

The metallic rivets are covered with the same garment fabric on the inner surface.



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Markings:

Each part of the suit shall be marked with the levels of performance and pictogram as per EN469, cleaning instructions and with the EC mark of conformity.

Instructions for use:

Storage, handling, cleaning, use and restrictions for use to be in accordance with the manufacturer's instructions.

Note concerning the overshoes: The ensemble includes overshoes designed to go over the boots being worn by the wearer. The overshoes do not have backs but are closed around the leg by means of an upper and lower strap. On the tested subject there was a small vertical gap where the two edges of the overshoe did not quite meet the straps were tied. The gap was mostly covered by the trouser leg but at the heel a gap still existed. It is anticipated this area would be protected by the boots being worn with the suit but end-user must decide on the basis of a risk assessment whether this is acceptable.

Remarks

The protective clothing shall be worn together with approved boots, gloves and helmet in accordance with the directive 2009/26/EC Annex A.1.

Limitations on the acceptance or use of the product

The fire-fighting suit protects only against radiant heat and NOT to be used for entering into fire.

Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform Germanischer Lloyd, as the Notified Body, of any modifications or changes to the approved equipment

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.



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.

EC Certificate of Conformity Quality System (Module D)



Germanischer Lloyd as the notified body performing the quality assessment procedures certifies that the manufacturer maintains and applies a quality system which is in compliance with the requirements of the Marine Equipment Directive (MED) 96/98/EC, as amended, ensuring that the equipment identified below is conform to the type as described in the EC Type Examination Certificate, subject to any conditions in the schedule attached hereto.

Certificate No. 20 202 - 11 HH

Manufacturer Jiaxing Rongsheng Lifesaving Equipment Co., Ltd
No. 159, Yaojia Road,
Wangdian Town, Xiuzhou District
314011 Jiaxing City, Zhejiang, CHINA

Product Description Firefighter's outfit: protective clothing (close proximity clothing).

Product Name Firefighter's protective suit of type RSX-F

Trade Name Firefighter's protective suit of type RSX-F

EC Type Examination
Certificate No. 20 201 - 11 HH

Date of Issue 2011-10-05

Valid Until 2016-10-04

Notified Body ID No. 0098

Related Directive 2009/26/EC

Equipment Section Fire protection

Annex A.1 Item No. A.1/3.3

Date of Issue 2011-10-05

Expiry Date 2016-10-04

Germanischer Lloyd



Nils Wegener

Notified Body No.: 0098

Certificate No: 20 202 - 11 HH Date of Issue: 2011-10-05

Schedule of Approval

Remarks

None

Notes:

This certificate authorises the manufacturer in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate and/or after lapse of time, withdrawal or revocation of the EC Type Examination (Module B) Certificate.

Wheelmark Format and application:



0098/yy

0098
yy

Notified Body number undertaking quality surveillance
Last two digits of year in which the mark is affixed