DNV·GL

EC CERTIFICATE
TYPE EXAMINATION (MODULE B)

This is to certify that:
DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, 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.	**86 244 - 09 HH**
Applicant	**Shanghai Star Rubber Products Co., Ltd. No.4968 Sichen Highway, Sheshan Town, Songjiang District, Shanghai 201602, CHINA**
Manufacturer	**Shanghai Star Rubber Products Co., Ltd. No.4968 Sichen Highway, Sheshan Town, Songjiang District, Shanghai 201602, CHINA**
Product Description	**Inflatable Liferafts, throw over-board type, SOLAS-A or B Pack**
Product Name	**SMLR-A-6/ -8/ -10/ -12/ -15/ -16/ -20/ -25**
Trade Name	**CSM**
Specified Standards	**SOLAS 74 as amended Reg. III/4, III/13, III/21, III/26, III/31 and III/34, X/3 LSA-Code I,IV, MSC.81(70) MSC/Circ.811, 1994 and 2000 HSC Code 8. MSC.207(81), MSC.218(82), MSC.226(82), MSC.293(87), MSC.295(87), MSC.323(89)**
Related Directive	**2013/52/EU**
Equipment Section	**Life-saving appliances**
Annex A.1 Item No.	**A.1/1.12**
Date of Re-issue	**2015-02-24**
Expiry Date	**2019-11-13**

DNV GL SE

Notified Body No.: 0098

Christine Mydlak-Röder

Certificate No: 86 244 - 09 HH **Date of Re-issue:** 2015-02-24

Schedule of Approval

Additional Standards

ISO 15738 (2002), Transport Canada TP14612 E, TP14475 E

Approval Documentation

-Test report : MSC/Circ.980 4.1 GL SHA dated 2009-08-10, 2011-12-15 and 2014-03-10 (SHA-14-01152), MSC/Circ.980 4.3.4 GL Shanghai, 2009-08-10
- Inspection report: Shanghai Monitoring and Inspection Center for Rubber Products Quality, No. W(X) 2009-26
- Technical file verified with 13-103767 and 14-090572

Technical Data

Conditions of Certification:

Type	Persons (82.5kg)	Weight [kg] SOLAS A /B	Required bollard pull [kN] (2kn)	(3kn)	max. Stowage height [m]
SMLR-A-6	6	82 / 70	0.5	0.8	40
SMLR-A-8	8	88 / 72	0.7	1.1	40
SMLR-A-10	10	112 / 92	0.8	1.3	40
SMLR-A-12	12	112 / 92	1.1	1.4	40
SMLR-A-15	15	142 / 110	1.1	1.5	40
SMLR-A-16	16	145 / 112	1.1	1.6	40
SMLR-A-20	20	171 / 128	1.5	1.8	40
SMLR-A-25	25	185 / 132	1.6	2.1	40

1. The equipment and marking of the liferaft and container shall be in accordance with LSA-Code 4.1.5, 4.2.7 and 4.2.6.3

2. The liferafts are to be serviced annually at approved service stations which are authorized by the manufacturer.

3. Production tests are to be conducted in accordance with IMO Res. MSC.81(70), Part 2 and recorded by the manufacturer in compliance with the approved Production Quality Assurance System for Module D of the Marine Equipment Directive 96/98/EC as amended.

Remarks

None

Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, 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 certifiate, 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.

Limitations on the acceptance or use of the product

Max. drop height: 40 m