



BUNDESAMT FÜR
SCHIFFFAHRT
UND
HYDROGRAPHIE

Notified Body authorised by
BSH 0800-S23/4822:013

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Certificate No: LR2552907MB

Issue Date: 29/04/2025

Expiry Date: 28/04/2030

EC Type Examination (Module B) Certificate

This is to certify that:

LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, 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 and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

Manufacturer	Hefei Xingtu Reflective Material Co., Ltd.
Address	The North of Changsong Road, Hefei Recycle Economy Construction, Feidong County, Hefei City, Anhui Province, 231602, China
Reference	Marine Equipment Directive 2014/90/EU, Regulation (EU) 2024/1975
Regulation Item (No. & Item Designation)	MED/1.30 Retro-Reflective Materials
Product Type	Retro-Reflective Materials
Product Description	Retro-Reflective Tape
Specified Standard	SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3. SOLAS 74 Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.97(73)-(2000 HSC Code) 8. IMO Res. MSC.481(102).
Row of the Regulation Item	Row 2 of 2 of Regulation (EU) 2024/1975
Trade Name	"SOLAS - XT1800A" (Type II) and "SOLAS - XT1800B" (Type I)

Lijo Thomas

Lloyd's Register Marine Deutschland
GmbH, Willy-Brandt-Straße 59-65, 20457
Hamburg, Germany.
A member of the Lloyd's Register group

Lijo Thomas

Fire & Safety - Senior Surveyor
For and on behalf of Lloyd's Register Marine
Deutschland GmbH (2923)

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The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels 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-control phase module (D,E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

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Reference: UKITSO/LSA/TA/LT/ TSO/024- 23594/PRJ11100476600

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2552907MB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.
This Certificate Supersedes Certificate Number : LR21145343MB

Examined Documentation

Data sheet, SOLAS XT 1800A Marine Grade SOLAS Retro-reflective sheeting.
Data sheet, SOLAS XT 1800B Marine Grade SOLAS Retro-reflective sheeting.

Drawing Title	Doc. No	Date
Drawing of reflective layers	-	December 2020
Installation instructions	-	December 2020

Test Reports

Test Report No 2019154, dated 30th October 2020 conducted at Wuhan Testing Centre of Marine Life Saving Appliance for Type II material, in accordance with IMO Res. A.658 (16) Annex II (superseded by RESOLUTION MSC.481(102)).

Test Report No 2019155, dated 23rd June 2020 conducted at Wuhan Testing Centre of Marine Life Saving Appliance for Type I material, in accordance with IMO Res. A.658 (16) Annex II (superseded by RESOLUTION MSC.481(102)).

Conditions of Certification

1. The material shall be marked and identified as required by the paragraph 1.2.2.9 of LSA code and other applicable regulations
2. Approval of this material is only applicable to its use when applied to Life-Saving Appliance as defined by the applicable Regulation stated on Page 1 of this Certificate.
3. The Type I Retro-Reflective Material, shall be applied on Life-Saving Appliance which do not have continuous outdoor exposure such as Lifejackets, Immersion Suits, Indoor Lifebuoy and Liferrafts.
4. The Type II Retro-Reflective Material, shall be applied on Life-Saving Appliance which have continuous outdoor exposure such as Lifeboats, Rescue boats and outdoor lifebuoys.
5. When fitting retroreflective material on life saving appliances, guidance may be taken in accordance with examples shown in Annex 1 of IMO Resolution IMO Res. MSC.481(102).
6. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
7. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive
8. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration

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9. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity"
10. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained
11. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned

PLACE OF PRODUCTION

Hefei Xingtu Reflective Material Co., Ltd
The North of Changsong Road
Hefei Recycle Economy Construction
Feidong County
Hefei City
Anhui Province
China

Lijo Thomas
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Marine Deutschland
LRMD EC Distinguishing No. 2923

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