



EC TYPE EXAMINATION (MODULE B) CERTIFICATE


This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life-saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant) Address	3M Personal Safety Division 3M Center, 235-2F-06 St. Paul, MN 55144-1000 United States of America (USA)
Authorised Representative Address	3M Deutschland GmbH Ms. Giovanna Longo Carl-Schurz-Str. 1 41453 Neuss Germany
Reference Regulation Item (No & Item designation)	Regulation (EU) 2018/773 MED/1.30 RETRO-REFLECTIVE MATERIALS
Product Type	RETRO-REFLECTIVE MATERIALS
Product Description	Retro-reflective marking material – Type: "Scotchlite™ High Intensity Grade SOLAS Reflective Sheeting Series 3150-A"
Specified Standards	IMO Resolution A.658 (16), Annex 2

The attached Design Appraisal Document (schedule) forms part of this certificate.

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

Date of issue	8 August 2018	Expiry date	7 August 2023
Certificate No.	MED 1850161	Signed	
Sheet No.	1 of 3	Name	B. McDonald For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

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Lloyd's
Register

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Document number MED 1850161
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 8 August 2018	Quote this reference on all future communications UKITSO/SFS/TA/LSA/BM/WP33503606
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850161

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 is a renewal of Certificate No. MED 1350104

EXAMINED DOCUMENTATION

- Construction Plans "Scotchlite" Brand SOLAS Grade Sheeting 3150-A dated 16 March 1996
- 3M Technical Data Sheet for "Scotchlite"

TEST REPORTS

- Test report for Seawater Immersion test, dated 30.04.07
- Test report for Adhesive Strength tests, dated 30.04.07
- Test report for Temperature Resistance test, dated 30.04.07
- 3M Master Test Report List dated 8-7-13 - SOLAS Application for Statutory Type Approval for 3M 3150-A, 6750-I and 6755
- Lloyd's Register Factual Statement # WO3261797
- Lloyd's Register Verification Visit Report - Calvard January 2012

CONDITIONS OF CERTIFICATION

1. The material shall be marked and identified as required by the applicable regulations
2. Approval of this material is only applicable to its use when applied to life-saving appliances as defined by the applicable regulations stated on Page 1 of this certificate
3. The 3150-A is suitable for use with the following substrates:
 - a) Aluminium
 - b) GRP
 - c) Rubber
 - d) Vinyl/PVC
 - e) Polyurethane
4. 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



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5. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place
6. 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
7. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity"
8. 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

PLACE OF PRODUCTION

3M Brownwood
4501 Highway 377 South
Brownwood, TX 76801
United States of America (USA)



Bruce McDonald
TSC Manager - Americas, Marine
Lloyd's Register Americas
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038