



CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	3M Company
Address	3M OH&ES Division 3M Center Bldg 209-BS-01 St Paul, MN 55144-1000 United States of America (USA)
Product Type	RETRO-REFLECTIVE MATERIAL
Product Description	Retro-reflective material, for attachment by pressure sensitive adhesive - Type: "Scotchlite™ SOLAS Grade 3155"
Specified Standards	SOLAS 74, as amended, Regulations III/4 and 34. LSA Code, Regulation I/1.2 and I/1.2.2.7. IMO Resolution A.658(16), Annex 2.

The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 12 May 2008

Expiry date 11 May 2013

Certificate No. SAS S080070

Signed

Lloyd's Register
North America Inc.
Initials
Toronto Office
K. Gupta



Sheet No 1 of 3

Name

K. Gupta
Surveyor to Lloyd's Register EMEA
A Member of the Lloyd's Register Group

Note:

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 Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."

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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 12 May 2008	Quote this reference on all future communications LDSS/PAS/LSA/LT/KG/1-23731251
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S080070

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

EXAMINED DOCUMENTATION

Scotchlite™ SOLAS Grade 3155 Construction Plans, Attachment XIII
3M's Safety and Security Systems Division, Personal Safety Product Department Test Reports, Attachments I-XII

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. 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.
4. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
5. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. 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.
6. 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.

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PLACE OF PRODUCTION

3M Company
3M Brownwood
4501 Hwy 377 South
Brownwood
TX 76801
United States of America



Kapil Gupta
Surveyor Office
Product Approval Services
London Design Support Services
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).