



Lloyd's
Register

Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email med@lr.org

Page	2 of 3
Document number	MED 1850134
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date	27 June 2018	Quote this reference on all future communications	SOUTSO/SFS/TA/BG/WP32824817
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850134

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.

APPROVAL DOCUMENTATION

Exova Warringtonfire, Warrington, United Kingdom, Fire Test Report No. WF 327448, dated 22 May 2013.

CONDITIONS OF CERTIFICATION

1. When applied to the fire exposed stiffened side of a steel bulkhead, the "FyreWrap LT" AES wool insulation system described below, may be considered as an A-60 Bulkhead Restricted to fire risks on the insulated side of the bulkhead
2. Consisting of: one layer of "FyreWrap LT" AES wool insulation (45mm thick, 64kg/m³ density), applied vertically on the plate between stiffeners and a strip layer of same insulation (45mm thick, 64kg/m³ density) applied over stiffeners and overlapping the plate insulation, all retained with 3mm diameter welded steel pins and spring washers. Pins spaced at 225mm panels and 150mm over stiffeners horizontally to retain both layers, and spaced 700mm vertically on panels and 350mm on stiffeners, and at 50mm from all insulation joints and boundaries
3. For such non-combustible insulation materials the arrangements for this insulation system being fitted on the flat side of a bulkhead may also be considered for A-60 applications, subject to suitable fixing arrangements being separately approved by Lloyd's Register at the design stage
4. "FyreWrap LT" AES wool insulation may be considered with alternative facing materials that have been tested for Low Flame Spread Characteristics
5. Application in each case to be approved by Lloyd's Register at the design stage
6. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype
7. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system
8. (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive
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"



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10. This product has been assigned a **U.S. Coast Guard Module B number USCG Approval Category 164.107/EC0038** to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment"

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements

PLACE OF PRODUCTION

Unifrax Limited
Mill Lane,
Rainford,
St. Helens
Merseyside , WA11 8LP
United Kingdom

Unifrax France
17 Rue Antoine
Durafour
F-42420 Lorette
France

Unifrax I LLC,
54401 Smilax Road,
New Carlisle,
Indiana 46552,
USA.



Ben Geary
Technical Manager
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

**NOTIFIED BODY CERTIFICATE
TRANSFER OF RESPONSIBILITY**  Lloyd's Register

Certificate No: 0525-MED-DE-MED 1850134

This certificate transfers Lloyd's Register Verification Ltd. (0038)

Certificate No: MED 1850134

Issued on: 25 October 2018

to the responsibility of EU Notified Body No. 0525

(Lloyd's Register Deutschland GmbH)

Date of Original Certificate: 25 October 2018

Date of Current Certificate: 31 December 2020

Date of Certificate Expiry: 24 October 2023

Antje Herms-Bondzio

Lloyd's Register Deutschland GmbH

Überseeallee 10, 20457 Hamburg/Germany

T +49 40 349 700 101 44

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