



Lloyd's
Register

Lloyd's Register Verification Limited

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Page 2 of 3
Document number MED 1750146
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 7 August 2017	Quote this reference on all future communications SOUTSO/SFS/TA/KT/SA/WP28673804
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1750146

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

Lloyds Register Helsingborg Witness Certificates; HBG 1210047/1, dated 21 June 2012 for testing conducted at the Falck Nutek Test Facility, Esbjerg, Denmark.

Lloyds Register Helsingborg Witness Certificates; HBG 1210047/2, dated 29 June 2012 for testing conducted at the Falck Nutek Test Facility, Esbjerg, Denmark.

CONDITIONS OF CERTIFICATION

1. Foam concentrate type "P": When used in 3% minimum and 6% maximum concentration and an as-tested expansion ratio of 5:1, in suitable equipment for Class B hydrocarbon fires in machinery spaces and tanker deck protection
2. The foam concentrates should be stored above their freezing temperature as per the following:

Foam Type	Foam Concentrate	Freezing Temperature (°C)	Storage Temperature Range (°C)
P 3%	Protein Foam	-17	-16 to 49
P 6%		-17	-16 to 49

3. The storage container should be compatible with the foam concentrates throughout the service life of the foam
4. Periodical testing of foam concentrates for hydrocarbon fires should be carried out in accordance with Annex 4 and 5 of IMO MSC.1/Circ.1312, not more than 3 years after being supplied to the ship and after that, every year, by independent laboratories or authorised service suppliers acceptable to the Administration
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. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place



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PLACE OF PRODUCTION

Dafo Fomtec AB
Garnisonsgatan 47A
254 66 Helsingborg
Sweden


Lloyd's Register Verification Limited

Saji Abraham
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038