

## Certificate Of Fire 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.

<b>Manufacturer</b>	<b>Delta Fire Ltd</b>
<b>Address</b>	Rackheath Industrial Estate, Wendover Road, Rackheath, Norwich, Norfolk, NR13 6LH, United Kingdom
<b>Type</b>	Fire Fighting - Foam Making Unit - Mobile
<b>Description</b>	Mobile Foam Making Trolley Unit - Type: "DF 130"
<b>Trade Name</b>	DF 130
<b>Specified Standard</b>	SOLAS 1974 (as amended), Performance testing

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2006596SF**

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.

This certificate is a renewal of SAS F150118.

**APPROVAL DOCUMENTATION**

Marine Safety Agency Certificate of Inspection and Tests of a DF130 Foam Making Mobile Trolley Unit dated 20 January 2000.

**CONDITIONS OF CERTIFICATION**

1. DF130 Foam Making Mobile trolley unit consists of: HV225 foam making branch pipe and Z225 inline variable foam inductor as per Delta drawings no: DM-HV225 and DM-Z225 respectively, together with a 130 litre storage tank, general arrangement drawing no: DM-DF130.
2. The unit is to be used in conjunction with a standard hose of diameter not less than 65mm if unlined, or 45mm if lined.
3. Instructions concerning the maintenance and operation are to be supplied.
4. Sample performance using ATC 6% FC 602:

Inlet Pressure (bar)	Induction Rate (%)	Expansion Ratio	Foam Solution (l/min)	Range of Throw (m)	Foam Rate (m <sup>3</sup> /min)
7.0	6.0	-	195.0	12	1.9

5. 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.

**PLACE OF PRODUCTION**

Delta Fire Ltd  
Rackheath Industrial Estate  
Wendover Road  
Rackheath  
Norwich, Norfolk, NR13 6LH  
United Kingdom (UK)



Saji Abraham  
Senior Specialist  
Fire & Safety, Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
Lloyd's Register EMEA

**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample 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 product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.*