



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.

Manufacturer	Halton Oy
Address	Pulttikatu 2 15700 Lahti Finland
Type	B-15 CEILING FIXTURE
Description	Fire Resisting B-15 Ceiling Fixture - Type: "HMR/F-125 and HMF-100 Ventilating Units with Diffusers"
Specified Standard	IMO Fire Test Procedures Code, Annex 1, Part 3

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 10 November 2006 Expiry date 9 November 2011

Certificate No. SAS F060309

Signed

Lloyd's Register EMEA

Sheet No 1 of 2

Name

M. Farrier

Helsinki Office

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.

DESIGN APPRAISAL DOCUMENT

Date 10 November 2006	Quote this reference on all future communications LDSS/PAS/FITA/MF
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F060309

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

GERBAM Laboratory, France, Fire Test Report No. 121/00/A/NP/R 102, dated 3 October 2000 and VTT Building Technology, Fire Technology, Finland, Fire Test Report No. RTE 2028/00 dated 16 August 2000.

CONDITIONS OF CERTIFICATION

1. Ventilation unit type "HMR/F-125 consisting of: (Air Unit 625 mm x 485 mm x 240 mm deep) insulated with ISOVER BX 643 VV mineral wool (25 mm thick, 96 kg/m³ density) fitted in a B-15 ceiling manufactured by ALSTOM (0.6 mm thick steel panels, 275 mm wide).
2. Ventilation unit type "HMF-100 consisting of: (Air Unit 600 mm x 500 mm x 240 mm deep) insulated with ISOVER BX 643 VV mineral wool (25 mm thick, 96 kg/m³ density) fitted in a B-15 ceiling manufactured by PARMA METALS OY (0.7 mm thick steel panels, 300 mm wide).
3. 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

Halton Marine, Halton Oy
Pulttikatu 2
FIN-15700 Lahti
Finland



Martin Farrier
Lead Specialist
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).