

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	Rockwool A/S - Marine & Offshore
Address	Hovedgaden 584 2640 Hedehusene Denmark
Type	A-60 BULKHEAD
Description	Aluminium Bulkhead Insulated on Both Sides with "ROCKWOOL MARINE FIRE BATT 100 (2 x 30mm thick, 100 kg/m ³ density)
Specified Standard	IMO Res.MSC.61(67)-(FTP Code) Annex 1 Part 3 and Annex 2, IMO MSC/Circ.1120

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	3 December 2009	Expiry date	2 December 2014
Certificate No.	SAS F090364	Signed	 
Sheet No	1 of 2	Name	R. Askins 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 4 December 2009	Quote this reference on all future communications LDSS/TA/SFS/MHE/MF
-------------------------	---

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F090364

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Registro Italiano Navale (RINA), Italy, Test Report No. 2009CS01950/3 dated 7 April 2009.

CONDITIONS OF CERTIFICATION

1. When used in conjunction with an aluminium bulkhead insulated on both sides, to maintain a maximum core temperature of 200°C.
2. Consisting of: an aluminium bulkhead insulated on both sides and around stiffeners with two layers of "Rockwool Marine Fire Batt 100 (30mm thick, 100kg/m³ density) with staggered insulation joints and retained to the aluminium bulkhead with 3mm diameter welded steel pins and steel washers 38mm diameter (retained by aluminium bosses) spaced at 400mm maximum centres and within 50mm of all exposed insulation joints.
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

Rockwool A/S	Rockwool A/S	Rockwool A/S	Rockwool A/S	Rockwool A/S
Hovedgaden 501	Industrivej 9-11	Øster Doense	Vaerlegt. 56	Leangen Alle 1
DK-2640	DK-6580	DK-9500	Postbox 55	Postbox 3903
Hedehusene	Vamdrup	Hobro	N-1501 Moss	N-7002 Trondheim
Denmark	Denmark	Denmark	Norway	Norway

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).

Martin Farrier
Lead Specialist
Statutory Fire & Safety
London Design Support Services
Lloyd's Register EMEA