



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
Address	Hovedgaden 501 2640 Hedehusene Denmark
Type	A-60 BULKHEAD
Description	A-Class Bulkhead insulated on one side with "Marine Firebatts 100" (thickness 60/25mm, density 100kg/m ³)
Specified Standard	IMO Res. MSC.61(67)-(FTP Code) Annex 1 Part 3 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	2 June 2010	Expiry date	1 June 2015
Certificate No.	SAS F100148	Signed	 
Sheet No	1 of 2	Name	S. Abraham 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.

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DESIGN APPRAISAL DOCUMENT

Date 2 June 2010	Quote this reference on all future communications LDSS/TA/SFS/LT/SA
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F100148

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Registro Italiano Navale (RINA), Genoa, Italy, Fire Test Report No. 2004CS01428/3, dated 4 March 2004 and Rockwool Drawing No. KMP NO 04-04.

CONDITIONS OF CERTIFICATION

1. When used in conjunction with a steel bulkhead.
2. Insulation system comprises of (60mm thick, 100 kg/m³ density) Rockwool Marine Firebatts 100 applied between the stiffeners and retained by steel pins and washers at maximum 400mm x 150mm staggered centres. An additional layer of (25mm thick, 100 kg/m³ density) Rockwool Firebatts 100 is applied around the stiffeners and retained by steel pins and washers at maximum 300mm centres.
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.

PLACES OF PRODUCTION

A/S Rockwool Vaerlegt 56 N-1501 Moss Norway	A/S Rockwool Leangen alle 1 Postbox 3903 N-7002 Norway	Rockwool A/S Industrivej 6580 Vamdrup Denmark	Rockwool A/S Øster Doense 9500 Hobro Denmark
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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).

Saji Abraham
Surveyor
Statutory Fire & Safety
London Design Support Services
Lloyd's Register EMEA