

## CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product(s) detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations for use on offshore installations classed with Lloyd's Register, and for use on offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	Rockwool A/S
<b>Address</b>	Hovedgaden 501 2640 Hedehusene Denmark
<b>Type</b>	<b>H-60 BULKHEAD</b>
<b>Equipment Description</b>	Steel Bulkhead Insulated on Fire Exposed Side with "Rockwool Firebatt 150" (HC Firebatts 150) Thickness 100mm, Density 150kg/m <sup>3</sup>
<b>Specified Standard</b>	Hydrocarbon Time/Temperature Relationship IMO Resolution A.754 (18) Performance Criteria

The attached Design Appraisal Document forms part of this certificate.

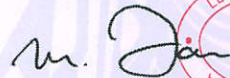
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 7 March 2007

Expiry date 6 March 2012

Certificate No. SAS F070075

Signed



Sheet No 1 of 2

Name

M. Farrier  
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 7 March 2007	Quote this reference on all future communications LDSS/PAS/FITA/MF/SA
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F070075**

This Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Warrington Fire Research Centre Ltd, Warrington, United Kingdom, Test Report No. 152600, dated 15 May 2006.

**CONDITIONS OF CERTIFICATION**

1. Consists of: 2 x 50mm insulation core of "HC Firebatts 150" of nominal density 150kg/m<sup>3</sup> applied on 5mm mild steel plate with 2 x 50mm "HC Firebatts 150" and over stiffeners; retained to the bulkhead by welded 3mm diameter steel pins and steel washers spaced at nominal 275mm centres and at all boundaries of insulation slabs and over stiffeners.
2. The insulation face of division is to be exposed to the fire risk side in all cases.
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  
 Industrivej 9-11  
 DK-6580 Vamdrup  
 Denmark

Rockwool A/S  
 Øster Doense  
 DK-9500 Hobro  
 Denmark

Rockwool A/S  
 Vaerlegt. 56  
 Postbox 55  
 N-1501 Moss  
 Norway

Rockwool Limited  
 Pencoed  
 Bridgend, Wales  
 CF35 6NY  
 United Kingdom

Rockwool Benelux B.V  
 Industrieweg 15  
 NL 6045JG  
 Roermond  
 Netherlands

Rockwool A/S  
 Leangen Allé 1  
 Postbox 3903  
 N-7002 Trondheim  
 Norway

Roxul Asia SND BHD  
 175A&B, Kawasan Perindustrian Air Keroh  
 Jalan Lingkungan Usaha  
 75450 Melaka  
 Malaysia




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).*