



## 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>	Rockwool A/S
<b>Address</b>	Hovedgaden 501 2640 Hedehusene Denmark
<b>Type</b>	A-60 BULKHEAD
<b>Description</b>	Aluminium Bulkhead insulated on the fire exposed side with "ROCKWOOL MARINE FIRE BATT 130 (60mm thick, 130kg/m <sup>3</sup> density)
<b>Specified Standard</b>	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	18 July 2006	Expiry date	17 July 2011
Certificate No.	SAS F060201	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 18 July 2006	Quote this reference on all future communications LDSS/PAS/FITA/MF
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#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F060201

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

DIFT Danish Institute of Fire Technology, Copenhagen, Denmark, Fire Test Report No G10125, dated 26 January 1996.

#### CONDITIONS OF CERTIFICATION

1. Insulated face of the division to be exposed to the fire risk side in all cases.
2. Consisting of: two layers of (30mm thick, 130kg/m<sup>3</sup> density) R.M.F.B 130 fitted on the fire exposed side of an aluminium bulkhead and retained by 3mm diameter steel pins mechanically fixed to the aluminium bulkhead and steel washers 38mm diameter, spaced at 300mm centres.
3. Application in each case to be approved by Lloyd's Register at the design stage.
4. Application restriction to stairway enclosures, lift trunks and control room boundaries, where the insulation faces the fire hazard and there is no fire risk on the non-insulated side.
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

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


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).*