

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	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC PRODUCTS OF COMBUSTION
Description	Fire Resisting Material - Types: "Aluminium Foil and Aluminium Foil with fibreglass-net reinforcement"
Specified Standard	IMO Resolution MSC.61(67) - (FTP Code) Annex 1 Part 5 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	31 May 2011	Expiry date	30 May 2016
Certificate No.	SAS F110189	Signed	
Sheet No	1 of 3	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."

DESIGN APPRAISAL DOCUMENT

Date 31 May 2011	Quote this reference on all future communications LDSO/TA/SFS/SA
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F110189

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

DIFT, Danish Institute of Fire Technology, Copenhagen, Fire Test Report File Nos. PF10798a/Serial No. 7354 dated 25 October 1999, No. PF10798b/Serial No. 7355 dated 25 October 1999, No. PF10798c/Serial No. 7356 dated 25 October 1999, No. PF10798d/Serial No. 7357 dated 25 October 1999, No. PF10449/Serial No. 6571 dated 12 December 1997, No. PF12752a/Serial No. 11358 dated 12 November 2007, No. PF12752b/Serial No. 11359 dated 12 November 2007, No. PF12752c/Serial No. 11360 dated 12 November 2007.

CONDITIONS OF CERTIFICATION

1. When applied to a certified Rockwool non-combustible material of at least 25kg/m³ or higher density.
2. Consisting of: Aluminium Foil, weight per unit area of aluminium foil: 77g/m², Aluminium Foil with fibreglass-net reinforcement, weight per unit area of aluminium foil 77g/m², weight per unit area of glass-net: 24g/m² and Aluminium Foil with fibreglass-net reinforcement, weight per unit area of aluminium foil: 54g/m², weight per unit area of glass net: 22g/m² and Aluminium Foil with fibreglass-net reinforcement, weight per unit area of aluminium foil: 49g/m², weight per unit area of glass net: 15g/m²
3. Smoke and toxicity criteria is satisfied by meeting the total heat release (Q_t) and peak heat release rate (q_p) as stated in IMO Fire Test Procedures Code, Annex 2, Section 2.2.
4. 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

Rockwool A/S
2640 Hedehusene
Vamdrup
Doense
Denmark

Rockwool A/S
Moss
Trondheim
Norway

Rockwool Polska Sp. z.o.o.
66-131 Cigacicie
Poland

Deutsche Rockwool GmbH & Co. OHG
Flechtingen
Neuburg
Gladbeck
Germany

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PLACES OF PRODUCTION cont.

Rockwool BV
NL-6045 JG Roermond
The Netherlands

Rockwool France
63700 Saint Eloy Les Mines
France

Roxul Asia Sdn. Bhd.
75450 Melaka
Malaysia

Flumroc AG
8890 Flums
Switzerland

Rockwool Adriatic d.o.o.
52 333 Potpičan
Croatia

Rockwool Peninsular S.A.U.
E-31380 Caparroso
Spain

Rockwool Hungary
8300 Tapolca
Hungary
Poland


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

Saji Abraham
Surveyor
Statutory Fire & Safety
London Design Support Office
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).