

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.

Manufacturer	Rockwool International A/S
Address	Hovedgaden 501 2640 Hedehusene Denmark
Type	NON LOAD BEARING CLADDING SYSTEM (HYDROCARBON FIRE TEST)
Description	H-60 Non-Load Bearing Cladding System – Type: 1.5mm thick Profiled Steel Plate Insulated on the Fire Exposed Side with “SeaRox SL 660” (50mm thick, 150 kg/m ³ density) and “SeaRox WM 660” (40mm thick, 150 kg/m ³ density)
Specified Standard	IMO Res. A.754(18) – (FTP Code) Performance Criteria and EN 1363-2 Hydrocarbon Time/Temperature Relationship

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 21 January 2015

Expiry date 20 January 2020

Certificate No. SAS F140345

Signed



Lloyd's Register EMEA
Technology and Engineering

Sheet No 1 of 3

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 Group Limited, 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'. Lloyd's Register 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 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 21 January 2015	Quote this reference on all future communications MTES/SFS/TA/JE/MF/WP19204256
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F140345

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Danish Institute of Fire and Security Technology (DBI), Test Report No. PG11997, Serial No. 11855, dated 21st January 2009.

CONDITIONS OF CERTIFICATION

1. Insulated face of the vertical division to be exposed to the fire risk side in all cases.
2. Consisting of: 1.5mm thick profiled steel plate insulated on the fire exposed side with one layer of "SeaRox SL 660" (50mm thick, 150kg/m³ density) and one layer of "SeaRox WM 660" (40mm thick, 150kg/m³ density) with staggered joints retained to the steel substrate with 3mm diameter welded steel pins and steel washers 28mm diameter spaced at 300mm centres. The insulation mounted in an even layer leaving no insulation in the troughs and securely supported by steel mesh across the troughs where dimensions exceed the as-tested profile.
3. Depth of profiled plate and the structural arrangements to be separately approved by Lloyd's Register for load bearing requirements.
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 International A/S
Hovedgaden 501
2640 Hedehusene
Denmark

Rockwool A/S
Moss
Trondheim
Norway

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

Rockwool BV
NL-6045 JG Roermond
The Netherlands

Rockwool Hungary
8300 Tapolca
Hungary
Poland

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

Rockwool Ltd
Pencoed
Bridgend
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Lloyd's
Register

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F140345



Martin Farrier
Lead Specialist
Statutory Fire & Safety
Marine Technology and Engineering 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).