

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 A/S - Marine & Offshore
Address	Hovedgaden 584 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 One Side with "ROCKWOOL HC FIRE BATT 150" (50mm thick, 150 kg/m ³ density) and "ROCKWOOL HC WIRED MATT 150" (40mm thick, 150 kg/m ³ density)
Specified Standard	IMO Resolution A. 754(18) performance criteria and hydrocarbon time/temperature relationship specified in EN 1363-2

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 2010

Expiry date 20 January 2015

Certificate No. SAS F100011

Signed

Sheet No 1 of 2

Name

P. Galbraith
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 21 January 2010	Quote this reference on all future communications LDSS/TA/SFS/MHE/PG
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F100011

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 21 January 2009.

CONDITIONS OF CERTIFICATION

1. Insulated face of the division to be exposed to the fire risk side in all cases.
2. Consisting of: 1.5mm thick profiled steel plate insulated on one side with one layer of "Rockwool HC Fire Batt 150" (50mm thick, 150kg/m³ density) and one layer of "Rockwool HC Wired Matt 150" (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 at the troughs.
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.

PLACE OF PRODUCTION

Rockwool A/S
 Industrivej 9-11
 DK-6580
 Vandrup
 Denmark

Rockwool A/S
 Øster Doense
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 Hobro
 Denmark

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Rockwool GMBH Flechtingen
 Calvörder Straße 19
 D-39345
 Flechtingen
 Germany



Paul Galbraith
 Lead Specialist
 Statutory Fire & Safety
 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).