

## CERTIFICATE OF FIRE APPROVAL

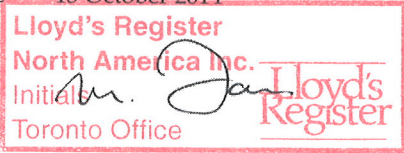
This is to certify that

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>	Roxul Inc.
<b>Address</b>	420 Bronte Street South, Suite 105, Milton, ON, Canada L9T 0H9
<b>Type</b>	A-60 DECK
<b>Description</b>	Steel Deck Insulated on underside with "Roxul RHM 60A & 60AC" (thickness 50/38mm, density 96kg/m <sup>3</sup> )
<b>Specified Standard</b>	IMO Res. MSC.61 (67)- (FTP Code) Annex 1 Part 3 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	14 October 2009	Expiry date	13 October 2014
Certificate No.	SAS F090280	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 September 2009	Quote this reference on all future communications LDSS/TA/SFS/SA/MF
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### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F090280

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

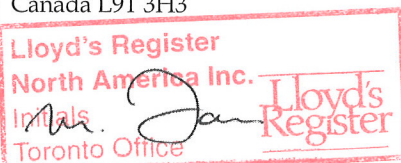
Southwest Research Institute (SwRI), Texas, USA, Fire Test Report No. 01.06193.01.001a dated January 2003.

#### CONDITIONS OF CERTIFICATION

1. When used in conjunction with a steel deck.
2. Insulation system comprises of: 38mm thick Roxul RHM 60AC applied around the stiffeners and retained by steel pins and washers at maximum 355mm centres. A layer of 50mm thick Roxul RHM 60 A is then applied to the underside of the deck between the stiffeners and retained by steel pins and washers at maximum 305mm x 355mm centres.
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

Roxul Inc.  
551 Harrop Drive  
Milton, ON  
Canada L9T 3H3



Martin Farrier  
Lead Specialist  
Statutory Fire and 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).*