

## 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	ROXUL Inc.
Address	8024 Esquesing Line Milton Ontario L9T 6W3 Canada
Type	A-60 BULKHEAD
Description	A-60 Class Bulkhead insulated on one side with "SeaRox SL 618NA" (thickness 76/38mm, density 96 kg/m <sup>3</sup> )
Specified Standard	IMO Res. MSC.61 (67) - (FTP Code) Annex 1 Part 3 IMO MSC/Circ.1120 IMO Res. MSC.307(88) - (2010 FTP Code) Section 8

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	28 May 2015	Expiry date	13 October 2019
Certificate No.	SAS F150085/M1	Signed	 
Sheet No	1 of 2	Name	J. M. Evans 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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## Lloyd's Register EMEA

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Page

2 of 2

Document number

SAS F150085/M1

Issue number

1

### DESIGN APPRAISAL DOCUMENT

Date  
28 May 2015

Quote this reference on all future communications  
MTES/SFS/TA/WP22026025

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F150085/M1

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Southwest Research Institute, Texas, USA, Test Report SwRI Project No. 01.06193.01.001 dated December 2002.

#### CONDITIONS OF CERTIFICATION

1. When used in conjunction with an approved steel bulkhead.
2. Consisting of: steel bulkhead insulated on stiffened side with 'SeaRox SL 618NA' (76mm thick, 96kg/m<sup>3</sup> density) applied between the stiffeners and retained by steel pins and washers at maximum 305mm x 305mm centres. An additional layer of 'SeaRox SL 618NA' (38mm thick, 96kg/m<sup>3</sup> density) is applied over the stiffeners and retained by steel pins and washers at maximum 305mm centres.
3. Composition and application of insulation material to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions.
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

ROXUL Inc  
805 Steeles Avenue West  
Milton  
Ontario  
Canada

ROXUL Inc  
6525 Industrial Parkway  
Grand Forks  
British Columbia  
Canada



Jessica Evans  
Senior Specialist  
Statutory Fire & Safety  
Marine Technology and Engineering Services  
Global Technology Centre  
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).*