



Transport  
Canada  
**Safety and Security**

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Certificate No: LR22378113TCF  
Issue Date: 29/08/2022  
Expiry Date: 28/08/2027

# Certificate of Type Approval Issued on Behalf of Transport of Canada

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 Transport Canada to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	<b>ROCKWOOL International A/S</b>
<b>Address</b>	Hovedgaden 501, 2640 Hedehusene, Denmark
<b>Type</b>	A-60 Bulkhead
<b>Description</b>	Fire Resisting 'A' Class Bulkhead – Type: "A60 Bulkhead SeaRox SL 620" steel bulkhead insulated on fire risk side with one layer of rockwool insulation material (40mm thick, 100kr/m3) for Restricted Applications
<b>Trade Name</b>	"A60 Bulkhead SeaRox SL 620"
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 3 IMO MSC.1/Circ.1435

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Ratheesh Rajagopal**

Fire & Safety Specialist to Lloyd's Register  
EMEA  
A member of the Lloyd's Register group

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR22378113TCF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Number LRTC 0000164/M1

**APPROVAL DOCUMENTATION**

**TEST REPORTS**

Danish Institute of Fire and Security Technology, Jernholmen 12, DK-2650 Hvidovre, Denmark; Test Report No. PGA10985A dated 1<sup>st</sup> February 2017.

**CONDITIONS OF CERTIFICATION**

1. **Restricted Application:** The insulation system shall only be used for applications where there is a fire risk from only one side of the division and the insulated side of the division shall face the fire risk in all cases.
2. When used in conjunction with an approved A Class bulkhead.
3. A-60 steel bulkhead restricted insulation system 'A60 Bulkhead SeaRox SL 620' consisting of: steel bulkhead insulated on fire risk side with one layer of rockwool insulation "SeaRox SL 620" (40mm thick, 100kg/m<sup>3</sup> density), manufactured by Rockwool Technical Insulation, applied on the steel plate, stiffeners insulated with two layers of rockwool insulation "SeaRox SL 620" (40mm and 25mm thick, 100kg/m<sup>3</sup> density) inside stiffeners and one layer of rockwool insulation "SeaRox SL 620" (25mm thick, 100kg/m<sup>3</sup> density) surrounding the outside of the stiffener parallel to bulkhead face in 3 strips of 65mm, 65mm and 125mm wide. Total thickness of the insulation is 45mm.
4. Insulation on the steel plate retained by 3mm diameter steel pins and 30mm diameter washers at maximum 300mm horizontal, 520mm staggered vertical, 300mm diagonal centres and 110mm from insulation joints with 2 pin rows, 170mm from insulation joints with 1 pin rows. Insulation strip mounted on external face of stiffener parallel to bulkhead face retained with steel pins and washers at 300mm centres.
5. Maximum width of insulation blankets following installation: 1000mm.
6. Insulation fixing method should be same as tested arrangement in all cases.
7. Composition of all product components shall be maintained in production as per the originally tested formula. Their method of application/installation onboard must be in full compliance with manufacturer's instructions, to ensure the final product assembly is of the same specification and capable of providing at least the same fire performance as the tested and approved prototype.



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8. 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.
9. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

**PLACE OF PRODUCTION**

**Rockwool A/S**

Leangen Alle 1  
No-7443  
Trondheim  
Norway

**Rockwool Malaysia Sdn. Bhd.**

Lot 4, Solok Waja 1  
Bukit Raja Industrial Estate,  
41050 Klang, Selangor  
Malaysia

**Rockwool Hungary**

Keszthelyi ut 53  
8300 Tapolca  
Hungary

**Rockwool BV**

Industrieweg 15  
6045 JG Roermond  
The Netherlands

**Rockwool Peninsular S.A.U.**

Pi Caparroso,  
Cr De Zaragoza N-121  
KM 53.5.31380  
Caparroso (Navarra)  
Spain

**Rockwool a.s.**

Cihelni 769  
735 31 Bohumin 3  
Czech Republic

**Rockwool Ltd**

Pencoed  
Bridgend  
Wales, CF35 6NY  
United Kingdom

**Roxul Rockwool Insulation India Pvt. Ltd.**

Plot - Z/4, Dahej SEZ, Dahej  
District Bharuch - 392 130  
Gujarat  
India

**Rockwool Beteiligungs GmbH**

Rockwool Strasse 37-41  
45966 Gladbeck  
Germany

**Rockwool A/S**

Rockwoolvej 2  
Øster Doense  
DK-9500 Hobro  
Denmark

**Rockwool A/S**

Industrivej 9-11  
DK-6580 Vamdrup  
Denmark



**DESIGN APPRAISAL DOCUMENT**

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Ratheesh Rajagopal  
Specialist  
Fire & Safety, Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
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).

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