

**EC-TYPE EXAMINATION
CERTIFICATE (MODULE B)**

Certificate No:
MEDB00006FA
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s)
A-60 Bulkhead SeaRox SL 620

Issued to
**Rockwool International A/S
Hedehusene, Denmark**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

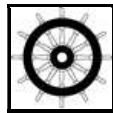
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-02-24**.

Issued at **Høvik** on **2020-06-17**

DNV GL local station:
Denmark CMC

Approval Engineer:
Tessa Bieber



Notified Body
No.: **0575**



for **DNV GL AS**

Digitally Signed By: Edvardsen, Marte Eknæs
Location: DNV GL Høvik, Norway
Signing Date: 01.07.2020 , on behalf of

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **344.1-010385-2**
Certificate No: **MEDB00006FA**
Revision No: **1**

Product description

"A60 Bulkhead SeaRox SL 620"

Composed of structural steel bulkhead insulated with a minimum 60 mm thick layer of mineral wool, type SeaRox SL 620 slab (manufactured by Rockwool with nominal density 100 - 130 kg/m³) between the stiffeners and with minimum 25 mm thick of the same insulation around the stiffeners.

Alternatively, minimal 40 mm of SeaRox ST 620 (manufactured by Rockwool with nominal density of 100 kg/m³) around the stiffeners. The stiffeners cavity is filled with one layer of 60 mm thick SeaRox SL 620 slab (manufactured by Rockwool with nominal density 100 kg/m³).

The insulation is fixed to the bulkhead by means of Ø3 mm pins in combination with minimal 30 mm diameter steel clips (spring washers). Distance between these pins is max. 300 mm.

For further details see documentation listed under Type Examination documentation.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

General application: Fire on either side.

The insulation materials and adhesives used, have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report no. PGA10946A dated 2016-12-16 from DBI, Hvidovre, Denmark.

Assessment report PHA11188A dated 2019-04-01 from DBI, Hvidovre, Denmark

Assessment report PHA10905A dated 2017-02-23 from DBI, Hvidovre, Denmark

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating and MED Mark of Conformity and USCG number if applicable (see first page).

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD0000134
Revision No:
10

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

Rockwool International A/S
Hedehusene, Denmark

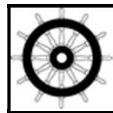
is found to comply with the applicable requirements.

The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2020/1170.

This Certificate is valid until **2022-04-10**.

Issued at **Høvik** on **2020-09-17**

DNV GL local station:
Denmark CMC



Approval Engineer:
Karolina Kusmider

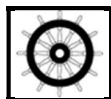
Notified Body
No.: **0575**



for **DNV GL AS**
Digitally Signed By: Schei-Nilsson, Mårten
Location: DNV GL Høvik, Norway
, on behalf of

Roald Vårheim
Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein. This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **344.1-006790-12**
 Certificate No: **MEDD0000134**
 Revision No: **10**

APPENDIX

Item no. MED/3.11a "A" and "B", Class divisions, fire integrity

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Steel Deck A60 with SeaRox SL 620 - type 2 ¹	MEDB00002EB	2022-04-02	0575	164.107/EC0575 /MEDB00002EB

Item no. MED/3.11a "A" Class divisions, fire integrity


Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Steel Bulkhead A15 with SeaRox SL 620 ¹	MEDB000005U Rev.1	2025-07-27	0575	164.105/EC0575 /MEDB000005U Rev.1
Steel Bulkhead A30 with SeaRox FB 6020/SeaRox FB 6050 or SeaRox FB 6020/ SeaRox FM 6030 ALU ¹	MEDB000005Y Rev.3	2025-07-27	0575	164.105/EC0575 /MEDB000005Y Rev.3
Steel Bulkhead A60 with SeaRox FB 6020/SeaRox FB 6050 or SeaRox FB 6020/SeaRox FM 6040 ALU ¹	MEDB0000060 Rev.3	2025-07-27	0575	164.105/EC0575 /MEDB0000060 Rev.3
Steel Bulkhead A60 with SeaRox FB 6040/SeaRox FB 6050 or SeaRox FB 6040/SeaRox FM 6040 ALU or SeaRox FB 6040/SeaRox FM 6050 ALU ¹	MEDB000005V Rev.4	2025-07-27	0575	164.105/EC0575 /MEDB000005V Rev.4
Steel Deck A15 with SeaRox SL 620 ¹	MEDB000005X Rev.1	2025-07-27	0575	164.105/EC0575 /MEDB000005X Rev.1
Steel Deck A30 with SeaRox FB 6050 / SeaRox FB 6050 or SeaRox FM 6030 ALU / SeaRox FM 6030 ALU or SeaRox FB 6050 / SeaRox FM 6030 ALU ¹	MEDB000005M Rev.3	2025-07-27	0575	164.105/EC0575 /MEDB000005M Rev.3
Steel Deck A60 with SeaRox FB 6020/SeaRox FB 6050 or SeaRox FM 6040 ALU or SeaRox FB 6020/SeaRox FM 6040 ALU or SeaRox FB 6020/SeaRox FM 6050 ALU ¹	MEDB000005S Rev.4	2025-07-27	0575	164.105/EC0575 /MEDB000005S Rev.4
A-60 Bulkhead SeaRox SL 620 ¹	MEDB00006FA Rev.1	2025-02-24	0575	164.108/EC0575 /MEDB00006FA rev.1
A-60 Deck SeaRox SL 620 ¹	MEDB00006EB Rev.2	2025-02-24	0575	164.105/EC0575 /MEDB00006EB Rev.2
A30 Deck SeaRox SL 620 25mm ¹	MEDB000053G	2024-07-15	0575	164.105/EC0575 /MEDB000053G
Steel Bulkhead A-60 (corrugated steel) with SeaRox SL 620 ¹	MEDB000059M	2024-07-15	0575	164.108/EC0575 /MEDB000059M
A-15 Steel Bulkhead with SeaRox FB 6040 35 mm or SeaRox FM 6040 35 mm ¹	MEDB00004R0	2024-02-14	0575	164.107/EC0575 /MEDB00004R0
Steel Deck A15 with SeaRox FB 6040	MEDB00003YN	2023-08-12	0575	164.107/EC0575

Job Id: **344.1-006790-12**
 Certificate No: **MEDD0000134**
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or SeaRox FB 6050 or SeaRox FM 6040 ALU or SeaRox SL 620 ¹				/MEDB00003YN
Aluminium Deck A60 with SeaRox FM 6040 ALU ¹	MEDB00003AH Rev.1	2022-10-31	0575	164.107/EC0575 /MEDB00003AH Rev.1
Aluminium Bulkhead A60 Restricted with SeaRox FM 6040 ALU ¹	MEDB00002S3	2022-09-14	0575	164.107/EC0575 /MEDB00002S3
Aluminium Bulkhead A60 with SeaRox FM 6040 ALU ¹	MEDB00002RZ	2022-09-14	0575	164.107/EC0575 /MEDB00002RZ
Steel Deck A60 with SeaRox SL 480 ¹	MEDB00002X8	2022-05-30	0575	164.105/EC0575 /MEDB00002X8
A-30 Bulkhead, Steel with SeaRox SL 620 ¹	MEDB00002HC	2022-03-26	0575	164.107/EC0575 /MEDB00002HC
A-30 Deck, Steel with SeaRox SL 620 ¹	MEDB00002HA	2022-03-26	0575	164.107/EC0575 /MEDB00002HA
A-60 Bulkhead restricted, Steel with SeaRox SL 620 ¹	MEDB00002HG	2022-03-26	0575	164.107/EC0575 /MEDB00002HG
A-60 Bulkhead, Steel with SeaRox SL 620 ¹	MEDB00002HN	2022-03-26	0575	164.107/EC0575 /MEDB00002HN
A-60 Deck, Steel with SeaRox SL 620 ¹	MEDB00002HT	2022-03-26	0575	164.107/EC0575 /MEDB00002HT
A-30 Deck, Steel ¹	MEDB00002ED	2022-03-09	0575	164.107/EC0575 /MEDB00002ED
A-60 Bulkhead, Aluminium ¹	MEDB00002B6	2022-03-06	0575	164.107/EC0575 /MEDB00002B6
A-60 Bulkhead, Steel ¹	MEDB00002B4	2022-03-06	0575	164.107/EC0575 /MEDB00002B4
A-60 Deck, Aluminium ¹	MEDB00002B7	2022-03-06	0575	164.107/EC0575 /MEDB00002B7
A-60 Deck, Steel ¹	MEDB00001SJ Rev.1	2022-03-06	0575	164.107/EC0575 /MEDB00001SJ Rev.1
Steel Deck A60, floating floor ¹	MEDB000016G	2022-03-05	0575	164.105/EC0575 /MEDB000016G
A-60 Deck, Steel ¹	MEDB00001SH	2021-10-31	0575	164.107/EC0575 /MEDB00001SH
Steel Deck A30 with SeaRox SL 620 - type 2 ¹	MEDB0000119	2021-07-17	0575	164.107/EC0575 /MEDB0000119
Steel Deck A15 with SeaRox FB 6020 ¹	MEDB0000196	2021-06-09	0575	164.107/EC0575 /MEDB0000196

Item no. MED/3.18a Surface materials and floor coverings with low flame-spread characteristics: decorative veneers

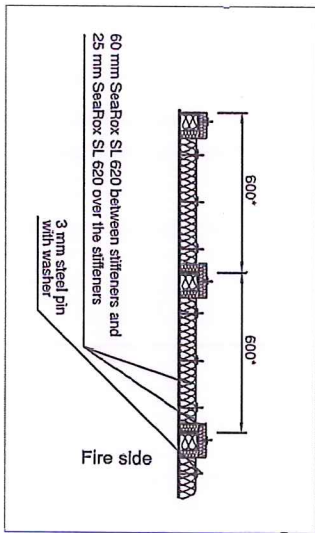
Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SeaRox Acoustic foil ¹	MEDB000053F	2024-07-15	0575	164.112/EC0575 /MEDB000053F



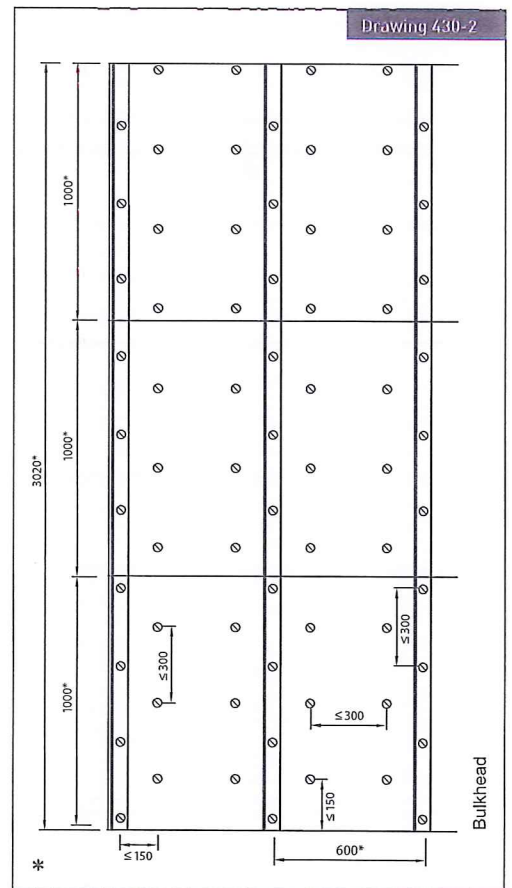
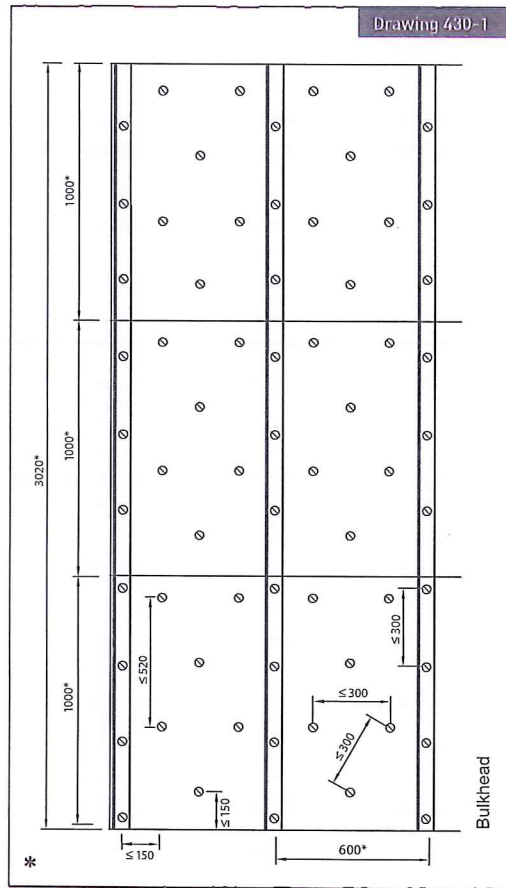
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Places of production

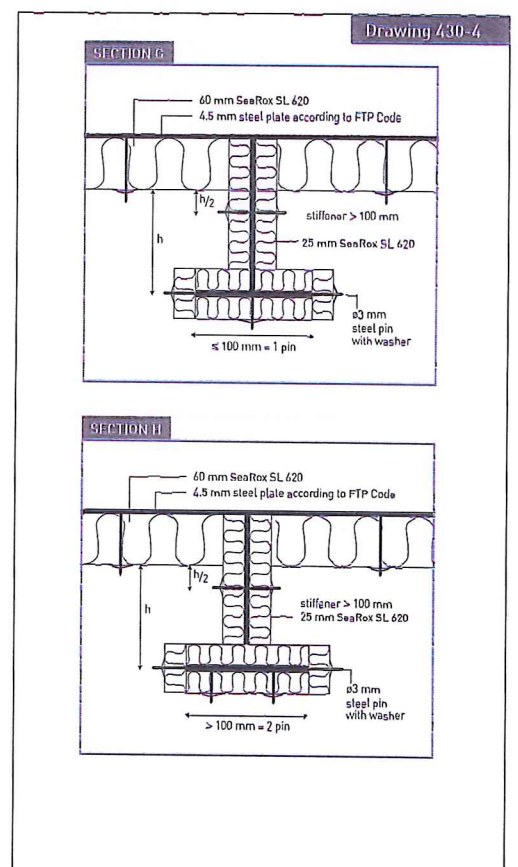
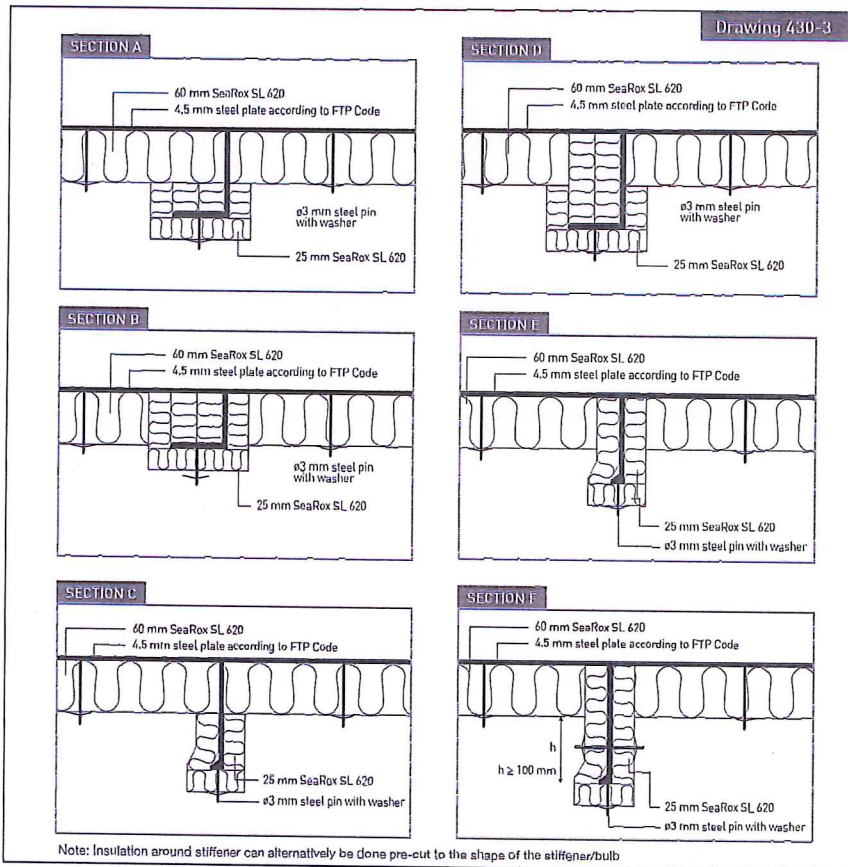
1. Rockwool International A/S, Hovedgaden 584, Hedehusene, Denmark



Danish Institute of Fire and Security Technology
File no. PHA10905 E



* Dimensions may vary depending on structural design and size of insulation slab.



All measurements in mm

Date: 2017/02/09

Subject: A-60 Bulkhead SeaRox SL 620/ SeaRox SL 620

Assessment Report Nos.:

ROCKWOOL®
TECHNICAL INSULATION