



Marine & Offshore

Certificate number: 24480/C2 BV

File number: ACI 1000/129/40 to 43, 45, 48, 66, 88, 89, 90

Product code: 5210H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Paroc Group Oy
Helsinki - FINLAND

for the type of product

NON-COMBUSTIBLE MATERIALS

Non-combustible insulating materials made of stone wool formed as slabs, mats, pipe sections, pipe elbows, lamella mats, wired mats with wire mesh.

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships Part C, Chapter 4.
SOLAS 74 convention as amended, Regulations II-2/3, II-2/5, II-2/9, X/3
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7
IMO Res MSC.307(88) -(2010 FTP Code)-

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 11 Nov 2027

For Bureau Veritas Marine & Offshore,
At BV TURKU (ABO), on 25 Mar 2024,
Miika KOKKO

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=paplkvfeko>

BV Mod. Ad.E 530 June 2017

This certificate consists of 6 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Non-combustible insulating materials made of stone wool formed as slabs, mats, pipe sections, pipe elbows, lamella mats, wired mats with wire mesh.

Designation	Description	Nominal density (kg/m ³)	Nominal organic content (%)*
PAROC Marine Slab 30	Stone wool slab	30	1.7
PAROC Marine Slab 40	Stone wool slab	40	1.9
PAROC Marine Slab 50	Stone wool slab	50	1.3
PAROC Marine Slab 60	Stone wool slab	60	1.7
PAROC Marine Slab 80	Stone wool slab	80	2.4
PAROC Marine Slab 130	Stone wool slab	130	1.9
PAROC Marine Slab 150	Stone wool slab	150	3.9
PAROC Marine Slab 160	Stone wool slab	160	1.9
PAROC Marine Slab 180	Stone wool slab	180	1.9
PAROC Marine Slab 200	Stone wool slab	200	1.9
PAROC Marine Slab 220	Stone wool slab	220	2.4
PAROC Marine Slab 250	Stone wool slab	230	2.4
PAROC Marine Slab LO 150	Stone wool slab	150	1.2
PAROC Marine Slab VLO 150	Stone wool slab	150	0.7
PAROC Marine Floor Slab 140	Stone wool slab	140	1.7
PAROC Marine Fire Slab 40	Stone wool slab	40	1.3
PAROC Marine Fire Slab 80	Stone wool slab	80	1.3
PAROC Marine Fire Slab 100	Stone wool slab	100	1.3
PAROC Marine Fire Slab 110	Stone wool slab	110	1.3
PAROC Marine Fire Slab 120	Stone wool slab	120	1.3
PAROC Marine Fire Slab 130	Stone wool slab	130	1.3
PAROC Marine Fire Slab 140	Stone wool slab	140	1.7
PAROC Marine Fire Slab 150	Stone wool slab	150	1.7
PAROC Marine Fire Slab 220	Stone wool slab	220	0.8
PAROC Hvac Section	Stone wool pipe section	85-120	2
PAROC Hvac Combi	Stone wool pipe section with star shape inside	85-120	2
PAROC Hvac Bend	Stone wool pipe elbow	85-120	2
PAROC Pro Section 100	Stone wool pipe section	100-120	2
PAROC Pro Combi 100	Stone wool pipe section with star shape inside	100-120	2
PAROC Pro Bend 100	Stone wool pipe elbow	100-120	2
PAROC Pro Section 140	Stone wool pipe section	140	2
PAROC Pro Combi 140	Stone wool pipe section with star shape inside	140	2
PAROC Pro Bend 140	Stone wool pipe elbow	140	2
PAROC Marine Mat 30	Stone wool mat	30	1.4
PAROC Marine Mat 35	Stone wool mat	35	1.4
PAROC Marine Mat 50	Stone wool mat	50	0.9
PAROC Marine Mat 80	Stone wool mat	80	0.6
PAROC Marine Mat 100	Stone wool mat	100	0.6

PAROC Marine Wired Mat 40	Stone wool mat covered with wire mesh on one side	40	1
PAROC Marine Wired Mat 80	Stone wool mat covered with wire mesh on one side	80	0.6
PAROC Marine Wired Mat 100	Stone wool mat covered with wire mesh on one side	100	0.6
PAROC Marine Lamella Mat 35	Stone wool lamella mat	35	3.2
PAROC Marine Lamella Mat 50	Stone wool lamella mat	50	2.7
PAROC Marine Navis Mat 40	Stone wool mat	40	0.6
PAROC Marine Navis Mat 60	Stone wool mat	60	0.6
PAROC Marine Navis Mat 90	Stone wool mat	90	0.6
PAROC Marine Navis Slab 40	Stone wool slab	40	0.6
PAROC Marine Navis Slab 60	Stone wool slab	60	1.2
PAROC Marine Navis Slab 100	Stone wool slab	100	0.5
PAROC Marine Navis Wired Mat 40	Stone wool wired mat	40	0.6
PAROC Marine Navis Wired Mat 60	Stone wool wired mat	60	0.6
PAROC Marine Navis Wired Mat 90	Stone wool wired mat	90	0.6
PAROC Marine Loose Mat 50	Stone wool mat with low binder content	50	0.4

* The tolerance on organic content of PAROC Marine wool products is within $\pm 0.7\%$ absolute of the value stated as the nominal organic content, with the absolute minimum greater than or equal 0.1%.

2. DOCUMENTS AND DRAWINGS:

Designation	Technical data sheet
PAROC Marine Slab 30	dated 28/09/2022
PAROC Marine Slab 40	dated 28/09/2022
PAROC Marine Slab 50	dated 17/10/2022
PAROC Marine Slab 60	dated 28/09/2022
PAROC Marine Slab 80	dated 29/09/2020
PAROC Marine Slab 130	dated 27/10/2021
PAROC Marine Slab 150	dated 27/10/2021
PAROC Marine Slab 160	dated 01/03/2022
PAROC Marine Slab 180	dated 21/08/2020
PAROC Marine Slab 200	dated 21/12/2021
PAROC Marine Slab 220	dated 27/10/2021
PAROC Marine Slab 250	dated 21/08/2020
PAROC Marine Slab LO 150	dated 27/10/2021
PAROC Marine Slab VLO 150	dated 27/10/2021
PAROC Marine Floor Slab 140	dated 17/09/2020
PAROC Marine Fire Slab 40	dated 30/09/2021
PAROC Marine Fire Slab 80	dated 02/02/2022
PAROC Marine Fire Slab 100	dated 13/06/2022
PAROC Marine Fire Slab 110	dated 27/10/2021
PAROC Marine Fire Slab 120	dated 21/08/2020
PAROC Marine Fire Slab 130	dated 21/08/2020
PAROC Marine Fire Slab 140	dated 26/07/2021
PAROC Marine Fire Slab 150	dated 21/12/2021
PAROC Marine Fire Slab 220	dated 26/07/2021

PAROC Hvac Section	dated 26/01/2023
PAROC Hvac Combi	dated 26/01/2023
PAROC Hvac Bend	dated 26/01/2023
PAROC Pro Section 100	dated 26/01/2023
PAROC Pro Combi 100	dated 26/01/2023
PAROC Pro Bend 100	dated 26/01/2023
PAROC Pro Section 140	dated 26/01/2023
PAROC Pro Combi 140	dated 26/01/2023
PAROC Pro Bend 140	dated 26/01/2023
PAROC Marine Mat 30	dated 10/02/2023
PAROC Marine Mat 35	dated 10/02/2023
PAROC Marine Mat 50	dated 10/09/2021
PAROC Marine Mat 80	dated 21/08/2020
PAROC Marine Mat 100	dated 28/01/2022
PAROC Marine Wired Mat 40	dated 21/08/2020
PAROC Marine Wired Mat 80	dated 20/09/2022
PAROC Marine Wired Mat 100	dated 21/08/2020
PAROC Marine Lamella Mat 35	dated 06/03/2023
PAROC Marine Lamella Mat 50	dated 06/03/2023
PAROC Marine Navis Mat 40	dated 27/01/2023
PAROC Marine Navis Mat 60	dated 08/02/2023
PAROC Marine Navis Mat 90	dated 08/02/2023
PAROC Marine Navis Slab 40	dated 27/01/2023
PAROC Marine Navis Slab 60	dated 06/02/2023
PAROC Marine Navis Slab 100	dated 22/09/2022
PAROC Marine Navis Wired Mat 40	dated 27/01/2023
PAROC Marine Navis Wired Mat 60	dated 08/02/2023
PAROC Marine Navis Wired Mat 90	dated 08/02/2023
PAROC Marine Loose Mat 50	dated 02/01/2023

3. TEST REPORTS:

Designation	Test reports	Date of issue
PAROC Marine Slab 30	N° EUFI29-22004826-T7	15/03/2023
PAROC Marine Slab 40	N° EUFI33-22004306-T2	12/12/2022
PAROC Marine Slab 50	N° PFB10551B*	15/07/2022
PAROC Marine Slab 60	N° EUFI29-21004930-T1	20/12/2021
PAROC Marine Slab 80	N° EUFI29-22004822-T2	22/12/2022
PAROC Marine Slab 130	N° EUFI29-19005633-T12	31/12/2019
PAROC Marine Slab 150	N° EUFI29-21003076-T1	06/07/2021
PAROC Marine Slab 160	N° EUFI29-21004930-T3	20/12/2021
PAROC Marine Slab 180	N° EUFI29-21004930-T4	20/12/2021
PAROC Marine Slab 200	N° EUFI29-21005856-T1	27/12/2021
PAROC Marine Slab 220	N° EUFI29-21004930-T7	20/12/2021
PAROC Marine Slab 250	N° EUFI29-21004930-T5	20/12/2021

PAROC Marine Slab LO 150	N° EUFI29-21004930-T8	20/12/2021
PAROC Marine Slab VLO 150	N° EUFI29-20005633-T20	25/02/2021
PAROC Marine Floor Slab 140	N° EUFI29-21005367-T1	27/12/2021
PAROC Marine Fire Slab 40	N° EUFI29-21005348-T1	22/11/2021
PAROC Marine Fire Slab 80	N° EUFI29-21004930-T6	20/12/2021
PAROC Marine Fire Slab 100	N° EUFI29-22004826-T2	06/02/2023
PAROC Marine Fire Slab 110	N° EUFI33-22004306-T1	12/12/2022
PAROC Marine Fire Slab 120	N° EUFI29-22000552-T1	28/02/2022
PAROC Marine Fire Slab 130	N° EUFI29-22004822-T1	06/02/2023
PAROC Marine Fire Slab 140	N° EUFI29-21004930-T2	20/12/2021
PAROC Marine Fire Slab 150	N° EUFI29-21004598-T1	08/11/2021
PAROC Marine Fire Slab 220	N° PFB10464B rev. 2*	05/11/2021
PAROC Hvac Section	N° EUFI29-20005633-T13	19/02/2021
PAROC Hvac Combi	N° EUFI29-20005633-T13 + statement N° EUFI29-220005258-T1	19/02/2021 18/01/2022
PAROC Hvac Bend	N° EUFI29-20005633-T13 + statement N° EUFI29-220005258-T1	19/02/2021 18/01/2022
PAROC Pro Section 100	N° EUFI29-20005633-T14	19/02/2021
PAROC Pro Combi 100	N° EUFI29-20005633-T14 + statement N° EUFI29-220005258-T1	19/02/2021 18/01/2022
PAROC Pro Bend 100	N° EUFI29-20005633-T14 + statement N° EUFI-29-22000258-T1	19/02/2021 18/01/2022
PAROC Pro Section 140	N° EUFI29-20005633-T15	19/02/2021
PAROC Pro Combi 140	N° EUFI29-20005633-T15 + statement N° EUFI29-22003649-T1	19/02/2021 09/09/2022
PAROC Pro Bend 140	N° EUFI29-20005633-T15 + statement N° EUFI29-22003649-T1	19/02/2021 09/09/2022
PAROC Marine Mat 30	N° EUFI29-22004826-T4	27/02/2023
PAROC Marine Mat 35	N° EUFI29-21005348-T7	27/12/2021
PAROC Marine Mat 50	N° EUFI29-21005348-T8	27/12/2021
PAROC Marine Mat 80	N° EUFI29-22004826-T5	27/02/2023
PAROC Marine Mat 100	N° EUFI29-22004826-T3	27/02/2023
PAROC Marine Wired Mat 40	N° EUFI29-22004826-T8	27/02/2023
PAROC Marine Wired Mat 80	N° EUFI29-22004826-T9	27/02/2023
PAROC Marine Wired Mat 100	N° EUFI29-22004822-T3	11/01/2023
PAROC Marine Lamella Mat 35	N° EUFI29-21005348-T2	27/12/2021
PAROC Marine Lamella Mat 50	N° EUFI29-21005348-T3	27/12/2021
PAROC Marine Navis Mat 40	N° EUFI29-21005348-T5	27/12/2021
PAROC Marine Navis Mat 60	N° EUFI29-21005348-T10	01/04/2022
PAROC Marine Navis Mat 90	N° EUFI29-21005348-T4	27/12/2021
PAROC Marine Navis Slab 40	N° EUFI29-21004930-T10	25/04/2022
PAROC Marine Navis Slab 60	N° EUFI29-21005348-T6	27/12/2021
PAROC Marine Navis Slab 100	N° EUFI29-20005633-T21	25/02/2021

PAROC Marine Navis Wired Mat 40	N° EUFI29-21005348-T5	27/12/2021
PAROC Marine Navis Wired Mat 60	N° EUFI29-21005348-T10	01/04/2022
PAROC Marine Navis Wired Mat 90	N° EUFI29-21005348-T4	27/12/2021
PAROC Marine Loose Mat 50	N° PFB10495A*	03/08/2021

All reports as per IMO 2010 FTP Code, Annex 1, Part 1 from EUROFINS, Finland, except * from DBI, Denmark.

4. APPLICATION / LIMITATION:

4.1 - The fitting aboard should be the same as described in §1.

4.2 - The products may be used as an integrated part of approved fire resisting divisions only when tested as such.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The non-combustible materials described above are to be supplied by **PAROC GROUP OY** in compliance with the type described in this certificate.

5.2 - This type of products is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **PAROC GROUP OY** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **PAROC GROUP OY** has declared to Bureau Veritas the following production site(s), depending on the concerned product:

Paroc Oy
Sysilahden teollisuusalue 4
21600 Parainen
FINLAND

UAB Paroc
Savanoriu 124
03153 Vilnius
LITHUANIA

PAROC POLSKA Sp. z o.o. A
ul. Gnieznienska 4
62-240 Trzemeszno
POLAND

Paroc AB
Strandvägen 1
SE-533 04 Hällekis
SWEDEN

6. MARKING OF PRODUCT:

The product or packing is to be marked with manufacturer name, type and designation.

7. OTHERS:

7.1 - It is **PAROC GROUP OY**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 24480/C1 BV issued on 24/03/2023 by the Society.

*** END OF CERTIFICATE ***