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Maritime & Coastguard Agency Approved Body authorised by the MCA
 Page 1 of 6

 Certificate No:
 LR2351212UKMB-02

 Issue Date:
 12/01/2024

 Expiry Date:
 21/12/2026

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

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This is to certify that:

. .

Lloyd's Register Marine Limited (LRM Ltd) did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

. . .

Manufacturer	MCT Brattberg AB
Address	Lyckeåborg, 371 92 Karlskrona, Sweden
Reference	MSN1874 Amendment 7
Regulation Item (No. & Item Designation)	UK/3.26a Penetrations through 'A' Class divisions: electric cable transits
Product Type	Fire Resisting Penetration Seals
Product Description	MCT Brattberg Single/Multi Cable & Pipe Circular Penetration seals Types: "RGP" and "RGPO" installed in MCT Brattberg Mild, Stainless Steel or Aluminium Circular frames Types: "S, SFR, SFRB and SFRBO"
Trade Name	"RGP" "RGPO" Penetration Seals
Specified Standard	IMO Res. MSC.307(88)-(2010 FTP Code), Annex 1 Part 3 IMO MSC.1/Circ. 1488

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate is issued under the authority of the MCA. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

Lloyd's Register Marine Limited (Reg. no. 13281335) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A member of Lloyd's Register group.

Marta Walk

Fire & Safety - Senior Specialist For and on behalf of Lloyd's Register Marine Ltd. (8512)

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Maritime & Coastguard Agency

Approved Body authorised by the MCA

Page 2 of 6 Certificate No: LR2351212UKMB-02 Issue Date: 12/01/2024 Expiry Date: 21/12/2026

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

The "UK Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an Approved Body.

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3 of 6 LR2351212UKMB-02 12/01/2024 21/12/2026 UKITSO/FIRE/TA/MW/PRJ11100430406

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2351211UKMB-02

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and the Merchant Shipping (Marine Equipment) Regulations 2016, as amended for the UK Type Examination of marine equipment for use on UK ships.

This Design Appraisal Document forms part of the Certificate.

This Certificate Supersedes and is an Amendment of Certificate Number: LR2351212UKMB-01

APPROVAL/EXAMINED DOCUMENTATION

MCT Brattberg drawings reference 1190517 rev A, 1190518 rev B, 1190520 rev A, 1190521 rev A, 1190522 rev A, 1190523 rev A, 1190524 rev A, 1190525 rev A, 1190526 rev A, 1190527 rev A, DNV witness reports N141GRC3 dated 22 November 2017 and N141GRU3 dated 28th February 2018.

TEST REPORTS

Building Research Establishment test reports 301124C dated 2nd March 2016, P101462-1001 dated 14th September 2018, P101462-1002 dated 15th August 2018, P101462-1006 dated 2nd February 2018, P101462-1010 dated 27th November 2019, P101462-1014 dated 22nd November 2019 and P101462-1015 dated 27th November 2019.

CONDITIONS OF CERTIFICATION

- 1. When used in conjunction with A-60 Class steel or A-60 Class aluminium bulkheads and decks with approved insulation arrangements, refer to MCT Brattberg installation drawings.
- 2. For applications in A-0, A-15, A-30 Class steel bulkheads and decks, a 200mm diameter ring of A-60 insulation is to be provided around one side of the bulkhead penetration or underside of deck penetrations. The insulation shall be as per the A-60 tested specimens.
- 3. "RGP" and "RGPO" cable penetrations consisting of: MCT Brattberg mild, stainless Steel or Aluminium Frames filled with MCT Brattberg 60mm thick Lycron self lubricating transit blocks of type standard, add block, U block and Handi block.
- 4. Tables 1-5 below detail penetration types and sizes.

Table 1. Aluminium A-60 Bulkheads.

Aluminium Bulkheads A-60					
Frame Type	Sleeve Type	Penetration Size	Cable/Pipe	Collar Position	Drawing Reference
S, SFR, SFRB, SFRBO	RGP/RGPO	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190522

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4 of 6 LR2351212UKMB-02 12/01/2024 21/12/2026 UKITSO/FIRE/TA/MW/PRJ11100430406

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2351211UKMB-02

Table 2. Aluminium A-60 Deck.

Aluminium Decks A-60					
Frame Type	Sleeve Type	Penetration Size	Cable/Pipe	Collar Position	Drawing Reference
S, SFR, SFRB, SFRBO	RGP/RGPO	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190520

Table 3. Steel A-60 Bulkheads.

	Steel Bulkheads A-60					
Frame Type	Sleeve Type	Penetration Size	Cable/Pipe	Collar Position	Drawing Reference	
S, SFR, SFRB, SFRBO	RGP S	RGP 50	Cable/Pipe	Centre-Line		
S, SFR, SFRB, SFRBO	RGP/ RGPO	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190523, 1190524, 1190527	
S, SFR, SFRB, SFRBO	RGP/ RGPO	RGP 300	Cable/Pipe	Centre Line, Exposed or unexposed	1190525, 1190526	
S, SFR, SFRB, SFRBO	RGP BTB LIGHT	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1090517	

Table 4. Steel A-60 Decks.

Steel Decks A-60					
Frame Type	Sleeve Type	Penetration Size	Cable/Pipe	Collar Position	Drawing Reference
S, SFR, SFRB, SFRBO	RGP/RGPO	RGP 50-300	Cable/Pipe	Centre Line, Exposed or unexposed	1190521

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5 of 6 LR2351212UKMB-02 12/01/2024 21/12/2026 UKITSO/FIRE/TA/MW/PRJ11100430406

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2351211UKMB-02

Table 5. CIS 100 Sandwich Panelled A-60 Bulkhead.

CIS 100 Sandwich Panelled A-60 Bulkhead.					
Frame Type	Sleeve Type	Penetration Size	Cable/Pipe	Collar Position	Drawing Reference
SFRB	RGP	RGP 50-200	Cables	Centre Line, Exposed or unexposed	1190518-B

- 5. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance System (Module D), a Product-Quality Assurance System (Module E) or a Product Verification Process (Module F), as applicable. The UK Conformity Mark cannot be affixed to the product until a conformity assessment module is in place.
- 6. Each item, batch or lot of the subject equipment is to be issued with a "UK Declaration of Conformity" and have the "UK Conformity Mark" affixed after a conformity assessment module is in place.
- 7. 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 as applicable and are designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.
- 8. Should a change of Place of Production from that stated below be required i.e., where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.
- 9. The manufacturer must keep a copy of the UK type-examination certificate, its annexes, and additions together with the technical documentation at the disposal of the national authorities for a period of at least 10 years after the UK Conformity Mark has been affixed on the last product manufactured and, in no case for a period shorter than the expected life of the marine equipment concerned.

<u>Notes</u>

The following penetrations underwent a hydrostatic and pneumatic pressure test.

Penetration Type	Hydrostatic Pressure	Pnematic Pressure
RGP/RGPO 50-200 All Block Types	5 bar	3 bar
RGP/ RGPO 300 All Block Types	3 bar	2 bar

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6 of 6 LR2351212UKMB-02 12/01/2024 21/12/2026 UKITSO/FIRE/TA/MW/PRJ11100430406

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2351211UKMB-02

PLACE OF PRODUCTION

MCT Brattberg AB SE-37192 Karlskrona Sweden

M. Halk

Marta Walk Senior Specialist, Fire & Safety Statutory Discipline Team, Marine & Offshore Lloyd's Register EMEA For and on behalf of Lloyd's Register Marine Ltd. (LRM Ltd) - UK Approved Body 8512

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