



UK CONFORMITY ASSESSMENT EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Lloyd's Register Marine Limited (LRM Ltd), a UKAS accredited product certification body No. 23495, did undertake the relevant conformity assessment procedures for the marine equipment identified below which was found to be in compliance with the requirements of The Merchant Shipping (Marine Equipment) Regulations 2025 (SI 2025/1280), subject to any conditions in the schedule attached hereto.

Manufacturer	MCT Brattberg AB
Address	Lyckeåborg, Karlskrona, 371 92, Sweden
Reference	Merchant Shipping (Marine Equipment) Regulations 2025 (SI 2025/1280), MSN 1874 Amendment 11
Regulation Item (No. & Item Designation)	UK/3.26b Penetrations Through 'A' Class Divisions - Pipe, Duct, Trunk Etc. Penetrations
Product Type	Pipe Penetration (Standard Fire Test)
Product Description	Fire Resisting Single or Multiple Pipe Rectangular Penetration Seals – Type: “MCT Brattberg RGS Series” for A Class Steel Bulkheads and Decks
Trade Name	RGS single and multiple pipe rectangular transits
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 This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.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 marine 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.

The "United Kingdom conformity mark" may only be affixed to the above approved marine 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 2025, is fully complied with and controlled by a written inspection agreement with an 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)

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 '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.

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR26270052UKMB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and the Merchant Shipping (Marine Equipment) Regulations 2025 for the UK Type Examination of marine equipment for use on UK ships.

This Design Appraisal Document forms part of the Certificate.

APPROVAL/EXAMINED DOCUMENTATION

BRE Global Ltd, Garston, United Kingdom, Fire Test Report No.: P125338-1001, Issue 2 dated 4 April 2024
 DBI Danish Institute of Fire and Security Technology, Hvidovre, Denmark; Fire Test Report No.: PGB10367A Revision 1, dated 24 March 2025
Manufacturer’s Drawings No.: 1240350 Revision D, 1240358 Revision D & 1080760, Revision 1

CONDITIONS OF CERTIFICATION

1. RGS single and multiple pipe rectangular transits may be accepted for use in A Class steel bulkheads and decks, insulation arrangement for the penetrations are given in the tables below.
2. MCT Brattberg RGS series pipe penetrations consisting of frame, Lycron self-lubricating transit Insert Blocks (type “Standard Blocks”, “Handiblock”, “Addblocks”, “U-Blocks”, “Spareblocks” and “EMC variants”) and Stayplates and STG Endpacking with compression plate or PTG Presswedge.
3. For use with single steel pipes up to 114.5mm outside diameter and multiple steel pipes up to 30mm outside diameter and copper pipes up to 22mm outside diameter, insulated for minimum lengths as described in Manufacturer’s drawings listed above.
4. Frame sizes: 1, 2, 4, 6, 8 and combinations thereof to a maximum size equivalent to RGS 8x2 transit.
5. RGS series consisting Mild Steel, Stainless Steel, and aluminium Rectangular Frame types: RGS, RGSF, RGSFB, RGSC, RGSK, RGSbtb, RGSR, RGSFBO.
6. EMP (Electro Magnetic Pulse) Frame types may also be accepted
7. The frame is welded or bolted to an approved A Class steel division and packed with insert blocks suited for each pipe dimension. The compression unit is inserted to compress the insert blocks against pipes to establish a tight seal.

Table 1. RGS Pipe Transits in A-60 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
RGS	4-50mm	Steel Bulkhead	Unrestricted	A-60	1240350, rev. D, Fig.1
RGS	4-114.5mm	Steel Bulkhead	Unrestricted	A-60	1240350, rev. D, Fig.2
RGS	4-30mm	Steel Bulkhead	Unrestricted	A-60	1240350, rev. D, Fig.3
RGS	4mm	Steel Deck	Unrestricted	A-60	1240350, rev. D, Fig.4
RGS	4-50mm	Steel Deck	Unrestricted	A-60	1240350, rev. D, Fig.5
RGS	4-114.5mm	Steel Deck	Unrestricted	A-60	1240350, rev. D, Fig.6
RGS	4-30mm	Steel Deck	Unrestricted	A-60	1240350, rev. D, Fig.7

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 '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.

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR26270052UKMB

Table 2. RGS Pipe Transits in A-0 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
RGS	4-50mm	Steel Bulkhead	Unrestricted	A-0	1240358, rev. D, Fig.1
RGS	4-114.5mm	Steel Bulkhead	Unrestricted	A-0	1240358, rev. D, Fig.2
RGS	4-30mm	Steel Bulkhead	Unrestricted	A-0	1240358, rev. D, Fig.3
RGS	4mm	Steel Deck	Unrestricted	A-0	1240358, rev. D, Fig.4
RGS	4-50mm	Steel Deck	Unrestricted	A-0	1240358, rev. D, Fig.5
RGS	4-114.5mm	Steel Deck	Unrestricted	A-0	1240358, rev. D, Fig.6
RGS	4-30mm	Steel Deck	Unrestricted	A-0	1240358, rev. D, Fig.7

8. For applications in A-15, A-30 Class steel bulkheads and decks, penetrations are to be fitted with the same or equivalent A-60 Class insulation arrangements as those used in the fire tests (including any insulation fitted on the penetration itself in the tests) for a minimum distance of 200mm around the penetration.
9. Composition, application and installation of subcomponents, including adhesives, seals and any fire retardants, to be maintained in production and used in accordance with originally tested composition formula and method of application and installation, and manufacturer's instructions.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.

NOTE (FOR INFORMATION ONLY)

RGS pipe penetrations were subjected to 6 bar hydrostatic pressure testing and 4 bar pneumatic pressure testing, with satisfactory results, as detailed in the referenced documents: Lloyd's Register Witness Test Report No. 11201/A dated 30.01.2012 and Det Norske Veritas Watertightness and Gastightness Test Report No. N141GRC2 dated 22.11.2017

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 '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.



Page:

4 of 4

Certificate No:

LR26270052UKMB

Reference:

GTSO/FIRE/TA/MW/TSO/25-038812/PRJ111005044434

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR26270052UKMB

PLACE OF PRODUCTION

MCT Brattberg AB

Lyckeåborg

SE-37192 Karlskrona

Sweden

M. Walk.

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

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 '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.

ATTACHMENT TO UK MODULE B CERTIFICATE - DAD Template v.1 dated 09.01.2026.