



Certificate Of Fire Approval

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 contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	MCT Brattberg AB
Address	Lyckeåborg, Karlskrona, 371 92, Sweden
Type	Pipe Penetration (Standard Fire Test)
Description	Fire Resisting Single or Multiple Pipe Rectangular Penetration Seals -Type: "MCT Brattberg RGP Series" for A Class Steel Bulkheads and Decks
Trade Name	RGP 50 - 300
Specified Standard	IMO Res. MSC.307 (88)-(2010 FTP Code) Annex 1 Part 3 IMO MSC.1/Circ.1488

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 Marine Polska sp. z o. o. 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.

Al Zwycięstwa 13a, Gdańsk, 80-219, Poland

Marta Walk

Fire & Safety - Senior Specialist to Lloyd's Register Marine Polska sp. z o. o.
A member of the Lloyd's Register group

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**DESIGN APPRAISAL DOCUMENT****ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270336SFTC**

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.

APPROVAL 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 Reports Nos.: PGB10366A, dated 6 August 2024, PGB10367A Revision 1, dated 24 March 2025

Manufacturer's Drawings: 1240351, Revision C & 1240359, Revision C

CONDITIONS OF CERTIFICATION

1. MCT Brattberg RGP round pipe transit consist of sleeve, RGP seal with insert block, add block of Lycron rubber, on both faces are fitted with hardware galvanized or stainless steel connected by a screw.
2. The RGP transit is available with outer diameters of 50, 70, 100, 150 and 200 mm, they are also available in imperial sizes 3", 4", 5", 6" and 8 ". All are designed for use with insert blocks 60 mm in length with exception for RGP-50s (L=30). Which has a length of 30 mm
3. RGP transits is welded to the deck or bulkhead, two variants of sleeve available for welding S and SFR. RGP transits may be bolted to the deck or bulkhead with two variants of sleeve: SFRB and SFRBO. Sleeve types are stainless steel or aluminium.
4. RGP transit is available as EMC conversion.
5. RPG Pipe Transits may be accepted for applications in A Class steel divisions, insulation arrangement for the penetrations are given in the tables below.

Table 1. RGP Pipe Transits in A-60 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
RGP	24mm	Steel Bulkhead	Unrestricted	A-60	1240351, rev. C, Fig.1
RGP	24-50mm	Steel Bulkhead	Unrestricted	A-60	1240351, rev. C, Fig.2
RGP	24-114.5mm	Steel Bulkhead	Unrestricted	A-60	1240351, rev. C, Fig.3
RGP	24-160mm	Steel Bulkhead	Unrestricted	A-60	1240351, rev. C, Fig.4
RGP	4-24mm	Steel Deck	Unrestricted	A-60	1240351, rev. C, Fig.5
RGP	4-50mm	Steel Deck	Unrestricted	A-60	1240351, rev. C, Fig.6
RGP	4-160mm	Steel Deck	Unrestricted	A-60	1240351, rev. C, Fig.7

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270336SFTC**Table 2. RGP Pipe Transits in A-0 divisions**

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
RGP	24mm	Steel Bulkhead	Unrestricted	A-0	1240359, rev. C, Fig.1
RGP	24-50mm	Steel Bulkhead	Unrestricted	A-0	1240359, rev. C, Fig.2
RGP	24-114.5mm	Steel Bulkhead	Unrestricted	A-0	1240359, rev. C, Fig.3
RGP	24-160mm	Steel Bulkhead	Unrestricted	A-0	1240359, rev. C, Fig.4
RGP	4-24mm	Steel Deck	Unrestricted	A-0	1240359, rev. C, Fig.5
RGP	4-50mm	Steel Deck	Unrestricted	A-0	1240359, rev. C, Fig.6
RGP	4-160mm	Steel Deck	Unrestricted	A-0	1240359, rev. C, Fig.7

- 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.
- 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.
- 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.

 This product has been verified to be fully in accordance with Transport Canada Procedure TP14612E "Procedures for approval of life-saving appliances and fire safety systems, equipment and products" and is suitable to be placed on Canadian Flagged vessel

NOTE (FOR INFORMATION ONLY)

RGP pipes transits underwent a hydrostatic and pneumatic pressure test as detailed in table below and in the referenced documents: Lloyd's Register witness test reports no. QR14-5061 dated 17.05.2005; QR14-5070 dated 17.05.2005, QR-328, dated 22.08.2007, 11203w, dated 15.06.2011; Det Norske Veritas, Watertightness and Gastightness Test Reports No. N141GRC3, dated 22.11.2017, N141GRU3, dated 28.02.2018

Transit	Size	Hydrostatic pressure test		Pneumatic pressure test	
		Water pressure	Hold time	Air pressure	Hold time
RGP	50 ¹ -200	5 bar	30 min	4 bar	30 min
RGPbtb	50-200	5 bar	60 min	3 bar	30 min
RGPbtb	300	3 bar	60 min	2 bar	30 min

¹⁾ RGP-50 and RGP-50short (L=30) have been tested

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Certificate No:

LR26270336SFTC

Reference:

GTSO/FIRE/TA/MW/ TSO/25-038814/PRJ111005044437

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PLACE OF PRODUCTION

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Sweden

M. Walk.

Marta Walk
Senior Specialist, Fire & Safety
Statutory Discipline Team, 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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