

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	Cable Transit (Standard Fire Test)
Description	MCT Brattberg Single/Multi Cable & Pipe Circular Penetration seals Type: "RGP" installed in MCT Brattberg Mild, Stainless Steel or Aluminium Circular frame Types: "S, SFR, SFRB and SFRBO"
Trade Name	"RGP" Penetration Seals
Specified Standard	IMO Res. MSC.307(88)-(2010 FTP Code), as amended, 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.

**DESIGN APPRAISAL DOCUMENT****ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270995SFTC**

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.

This Certificate is a Renewal and an Amendment of Certificate Number: LR21222544SF-03.

APPROVAL DOCUMENTATION**Test Reports**

BRE Global Ltd, Garston, United Kingdom, Fire Test Report Nos. 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, P101462-1015 dated 27th November 2019, and P128270-1001 dated 6 August 2025

DBI Danish Institute of Fire and Security Technology, Hvidovre, Denmark; Fire Test Report No. PGB10366A dated 6 August 2024

Manufacturer's drawings: 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, 1240079 rev A & 1240439 rev A

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 on penetration itself shall be as per the A-60 tested specimens.
3. RGP 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. RGP penetration with reinforced insert block BOF is available as EMC conversion.
5. RGP cable penetration is welded to the deck or bulkhead, two variants of frames available for welding S and SFR. S and SFR frame are fully welded to both sides of the division.
6. RGP transits may be bolted to the deck or bulkhead with two variants of frame: SFRB and SFRBO.
7. Tables 1-3 below detail penetration types and sizes.

Table 1. Aluminium A-60 division.

Frame Type	Sleeve Seal Type	Application	Penetration Size	Service	Collar Position	Drawing Reference
S, SFR, SFRB, SFRBO	RGP	Aluminium Bulkheads	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190522 rev A
S, SFR, SFRB, SFRBO	RGP	Aluminium Decks	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190520 rev A

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Table 2. Steel A-60 divisions

Frame Type	Sleeve Seal Type	Application	Penetration Size	Service	Collar Position	Drawing Reference
S, SFR, SFRB, SFRBO	RGP	Steel Bulkheads	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1190523 rev A, 1190524 rev A, 1190527 rev A
S, SFR, SFRB, SFRBO	RGP	Steel Bulkheads	RGP 300	Cable/Pipe	Centre Line, Exposed or unexposed	1190525 rev A, 1190526 rev A
S, SFR, SFRB, SFRBO	RGP with BOF block	Steel Bulkheads	RGP 70	Blown optical fiber duct	Centre Line, Exposed or unexposed	1240079 rev A
S, SFR, SFRB, SFRBO	RGP BTB LIGHT	Steel Bulkheads	RGP 50-200	Cable/Pipe	Centre Line, Exposed or unexposed	1090517 rev A
S, SFR, SFRB, SFRBO	RGP	Steel Decks	RGP 50-300	Cable/Pipe	Centre Line, Exposed or unexposed	1190521 rev A
S, SFR, SFRB, SFRBO	RGP with BOF block	Steel Decks	RGP 70	Blown optical fiber duct	Centre Line, Exposed or unexposed	1240439 rev A

Table 3. CIS 100 Sandwich Panelled A-60 Bulkhead.

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

8. All cables used shall be fire-retardant and approved for use in marine applications, with diameter up to 110mm and blown optical fiber with diameter up to 18mm.
9. Cable transits are to be fitted with the as-tested insulation materials in all cases. Any modifications are subject to acceptance by the final project authority and the attending surveyor.
10. 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.
11. 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.
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 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.

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This product has been verified to be fully in accordance with Transport Canada Procedure TP14621E "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; outside the scope of this Fire Type Approval Certificate)

The following penetrations 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; Det Norske Veritas, Watertightness and Gastightness Test Reports No. N141GRC3, dated 22.11.2017, N141GRU3, dated 28.02.2018

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

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

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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