



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	SE-37 192 Karlskrona, Sweden
Type	CABLE TRANSIT (STANDARD FIRE TEST)
Description	MCT Brattberg SR, MSR & DB Series Cable Glands in A class Steel bulkheads and decks for cables
Trade Name	MCT Brattberg SR, MSR & DB Series Cable Glands
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 North America, Inc. 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.

1330 Enclave Parkway, Houston, Texas, 77077,
United States

Bruce McDonald

Technical Authority - Statutory to Lloyd's
Register North America, Inc.
A member of the Lloyd's Register group

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DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR22490614SF

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 Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Number LR2175938SF

APPROVAL DOCUMENTATION

Building Research Establishment (BRE), Garston, United Kingdom, Test Reports No: 301124D Issue 1 dated 21 April 2016, P101462-1021 Issue 1 dated 17 April 2020, P101462-1022 Issue 1 dated 7 July 2020. P101462-1023 dated 9 October 2020, P101462-1025 dated 9 August 2022, P101462-1026 dated 8 November 2022 and P101462-1027 Issue 1 dated 4 January 2023

Lloyds Register pressure test witness report reference QR14-11211G/W and QR14-11212G/W both dated 15 June 2011

CONDITIONS OF CERTIFICATION

1. Consisting of MCT Brattberg round cable glands with cylindrical silicone rubber bung tightened with two semicircular compression plates either bolted (MSR) or welded (SR) to the deck or bulkhead.
2. DB single cable variant also accepted bolted to the deck or bulkhead.
3. The SR, MSR and DB Series Cable Transits may be accepted for applications in A Class steel divisions , insulation arrangement for the penetrations are given in the tables below.

Table 1 MSR cable glands in A-0 and A-60 divisions

Seal	Maximum Cable Diameter (mm)	Application	Penetration position	Rating	Drawing
MSR	4-32mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	1220244
MSR	4-12mm	Steel Bulkhead	Unrestricted	A-60	1220244
MSR	13-32mm	Steel Bulkhead	Unrestricted	A-60	1220244
MSR	4-32mm	Steel Deck	Unrestricted	A-60	1220244
MSR	4-32mm	Steel Bulkhead	Restricted to the fire unexposed side	A-0	1220251
MSR	4-12mm	Steel Bulkhead	Unrestricted	A-0	1220251
MSR	13-32mm	Steel Bulkhead	Unrestricted	A-0	1220251
MSR	4-32mm	Steel Deck	Unrestricted	A-0	1220251

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Table 2. SR cable glands in A-0 and A-60 divisions

Seal	Maximum Cable Diameter (mm)	Application	Penetration position	Rating	Drawing
SR	4-50mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	1220247
SR	51-110mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	1220247
SR	4-12mm	Steel Bulkhead	Unrestricted	A-60	1220247
SR	4-110mm	Steel Deck	Unrestricted	A-60	1220247
SR	4-50mm	Steel Bulkhead	Restricted to the fire unexposed side	A-0	1220245
SR	51-110mm	Steel Bulkhead	Restricted to the fire unexposed side	A-0	1220245
SR	4-12mm	Steel Bulkhead	Unrestricted	A-0	1220245
SR	4-110mm	Steel Deck	Unrestricted	A-0	1220245

Table 3 DB cable glands in A-0 and A-60 divisions

Seal	Maximum Cable Diameter (mm)	Application	Penetration position	Rating	Drawing
DB	4-16mm	Steel Bulkhead	Unrestricted	A-60	1220246
DB	17-60mm	Steel Bulkhead	Unrestricted	A-60	1220246
DB	4-60mm	Steel Deck	Unrestricted	A-60	1220246
DB	4-16mm	Steel Bulkhead	Unrestricted	A-0	1220253
DB	17-60mm	Steel Bulkhead	Unrestricted	A-0	1220253
DB	4-60mm	Steel Deck	Unrestricted	A-0	1220253

4. Frame types MSR 20-63, SR 25-200 & DB 16-60.
5. EMP (Electro Magnetic Pulse) variant also accepted.
6. 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.

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DESIGN APPRAISAL DOCUMENT

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PRESSURE TESTING

1. MSR, SR and DB penetrations were tested for a hydrostatic and pneumatic pressure of 5 Bar

PLACES OF PRODUCTION

MCT Brattberg Ltd
Commerce Street
Carrs Industrial Estate
Haslingden
Lancashire, BB4 5JT
United Kingdom

MCT Brattberg AB
SE-37192 Karlskrona
Sweden

Bruce McDonald
Technical Authority-Statutory
Lloyd's Register Americas

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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