



CERTIFICATE NUMBER	23-2372493-1-PDA
EFFECTIVE DATE	04-Mar-2026
EXPIRY DATE	18-Oct-2028
ABS TECHNICAL OFFICE	London Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

MCT BRATTBERG AB

located at

SE-371 92 KARLSKRONA, , KARLSKRONA, Sweden

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Fire Stop System
Model: MCT Brattberg Cable/Pipe Transit System of type RGP and RGPO in sizes 50S & 50L to 300 with sleeves S, SFR or SFRB.
Endorsements:
Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 18/Oct/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping
mohammed abbas

Mohammed K.M. Abbas,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Web: www.mctbrattberg.se

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Product: Fire Stop System

Model: MCT Brattberg Cable/Pipe Transit System of type RGP and RGPO in sizes 50S & 50L to 300 with sleeves S, SFR or SFRB.

Endorsements:

Intended Service:

Marine & Offshore Applications - Cable penetrations in bulkheads and decks of fire Class A-0 through A-60, B-0 through B-30, and F-0 through F-30 for Steel Bulkheads and Decks.

Pipe penetrations in bulkheads and decks of fire Class A-0 through A-60

Description:

MCT Brattberg Single/Multi Cable/Pipe Circular Penetration Seal Modular Firestop Transit System. Type: RGP50 RGP70 RGP100 RGP125 RGP150 RGP200 RGP-300 Installed in MCT Brattberg Mild or Stainless Steel Circular frame Types: S, SFR, SFRB and SFRBO. RGP cable penetrations (either pipe penetration for RGP-300) peconsisting of: MCT Brattberg mild or stainless Steel Frames filled with MCT Brattberg 60mm thick utilizing halogen-free Lycron selflubricating transit blocks of type Standard, Addblock, U-block, Handiblock and EMI modules and accessories.

Rating:

Fire Resistance for Cable - RGP-50(2") short, RGP-50(2") long, RGP-70(3"), RGP-100(4"), RGP-125(5"), RGP-150(6"), RGP-200(8"), RGP-300(12") for use with sleeves: S, SR, SRB and SRBO are rated to A-0, A-15, A-30, & A-60, B-0, B-15, & B-30.

Fire Resistance for Pipe - RGP-50(2") short, RGP-50(2") long, RGP-70(3"), RGP-100(4"), RGP-125(5"), RGP-150(6"), RGP-200(8"), RGP-300(12") are rated to A-0, A-15, A-30, & A-60.

Watertightness: RGP- 50 short, RGP-50 long, RGP-200, RGP-8", SR-25, SR-150 - 5 bar g. hydrostatic test.

Gastightness: RGP- 50 short, RGP-50 long, RGP-200, RGP-8" - 3 bar g. pneumatic test; SR-25, SR-150 - 5 bar g. pneumatic test.

Service Restriction:

1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2) Not for use in tank boundaries and collision bulkhead.

3) Cable sizes and combinations are to be typical of marine installations. These transits have not been approved for use with CLX-type armour-clad electrical cables.

4) Maximum and minimum tested marine cable size: 50 mm & 8 mm outside diameter.

5) Maximum and Minimum tested Frame Size: Size 300 & Size 50

6) All fire rated transits are to be fully insulated in accordance with manufacturer's installation instructions and ABS approved drawings.

7) For fire class A-0, sleeves are to be insulated as for class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

8) This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

9) Minimum and Maximum Pipe sizes tested are 24 mm and 160 mm outside diameter for bulkhead and 4 mm and 160 mm outside diameter for deck.

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Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) Approval not performed on behalf of any flag Administration.
- 3) 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 tested/approved prototype.
- 4) Product should be installed/used in accordance with manufacturer's instructions and limitations.
- 5) The bulkhead or deck shall be insulated in accordance with applicable regulations.
- 6) Installation of transits are only permissible where strength and fatigue characteristics are not diminished or where satisfactory structural compensation has been provided.
- 7) When requested to be used in watertight bulkheads on passenger ships or special purpose ships, the penetration system has to comply with the requirements give in SOLAS Ch. II-1 Reg. 13.2.3 Consolidated Edition 2024. This approval of penetrations passing through watertight bulkhead is not to be construed as a substitute for flag Administration's approval for the purpose of SOLAS Consolidated Edition 2024.
- 8) The product or packing is to be marked with name of manufacturer, type designation and fire rating.
- 9) The owner or operator is to maintain the Register to record any disruption (repair, modification or opening out and closing) to a cable transit or to record the installation of a new cable transit.

Notes/Drawing/Documentation:

Drawing No. P125338-1001, BRE Global Test Report, Revision: 1, Pages:

Drawing No. 1240351, 1240351-C, Revision: Revision C, Pages:

Drawing No. 1240359, 1240359-C, Revision: Revision C, Pages:

Drawing No. PGB10367A, Test Report Transits in Steel Bulkhead, Revision: 1, Pages:

Drawing No. PGB10366A, Test Report Penetrations in Steel Bulkhead, Revision: 0, Pages:

Drawing No. Product Description RGP, Product Description RGP, Revision: -, Pages:

Terms of Validity:

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STANDARDS

ABS Rules:

2026 Rules for Conditions of Classification, Part 1A - Marine Vessel Rules: 1A-1-4/7.7, 1A-1-A3 & 1A-1-A4 which covers the following:

2026 Rules for Building and Classing Marine Vessel : 4-6-2/9.7, 4-8-4/21.13, & 4-8-4/29.15.

2026 Rules for Conditions of Classification – Offshore Units , (Part 1B) - 1B-1-4/9.7, 1B-1-A2 & 1B-1-A3

2026 Rules for Building and Classing Offshore Units (Offshore Rules) 4-3-3/5.13, 5-1-1/3.5, 5-1-1/3.21

National:

NA

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International:

SOLAS Consolidated Edition 2024, Chapter II-2 Pt.C/Reg.9.3.

2010 IMO FTP Code - Resolution MSC.307(88) (Adopted 3 December 2010), 2012 Edition (entered into force 1 July 2012), Annex 1 Part 3.

Government:

NA

EUMED:

NA

OTHERS:

NA