Confirmation of Product Type Approval

Company Name: WALLMAX INDIA ENTERPRISES PRIVATE LIMITED

Address: 12/6 GOLDEN PEACOCK COMPLEXMAIN MATHURA ROAD 121003 India

Product: Cable, Deck and Bulkhead Penetration Sealings

Model(s): WR, WRS, WRF, WRFF & WRFR6 series

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2222021-PDA	01-MAR-2022	28-FEB-2027
Manufacturing Assessment (MA)	22-5225168	07-APR-2022	06-APR-2027
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Marine & Offshroe cable & pipe penetration for Fire-tight and watertight Deck and Bulkhead

Description
Through penetration/variable diameter cable and pipe sealing solutions for A or B Class division/fire divisions/ Bulkhead and Deck.

WallMax Sealing Solution/Through Penetration/Fire stops with Variable/Fixed Diameter consisting of:

WallMax Rectangular Frame Series (WRF and WRFF) in sizes 60-1 x 1 to 240-1 x 1 and combinations thereof installed by Bolting or welding to fire divisions on Bulkhead and deck.

The WallMax Frames are filled with Halogen Free modular EPDM rubber blocks accommodating cables sizes from 3 mm to 99 mm.

WallMax Modules regular, WallMax Modules solid assemble with Halogen Free modular EPDM WallMax Wedge and Wallmax Retainer plates WRP are used for sealing of fire divisions for passage of single or multiple cable penetrations

WallMax Round Square Frame Series (WRS) finds it application as a cable and pipe sealing system with variable diameter technology composed of steel and aluminum sleeves (welded or bolted), Halogen Free rubber frames in sizes 75-200, and filled with WallMax modules, mounted on steel and aluminum decks and bulkheads.

Wallmax Round Frame Series (WR) finds its application as cable and pipe sealing system with variable diameter technology composed of steel and aluminum sleeves (welded or bolted), Halogen Free rubber

frames in sizes 25-200, mounted on steel and aluminum decks and bulkheads.

WRFR6 frames are used in combination with WMR series modules and accessories to achieve customized sealing solutions.

Ratings
Aluminum and Steel penetration devices for Deck and Bulkhead

A60 fire rated and watertight pressure ratings of between 3 to 6 bars and Air/Gas tight pressure rating of between 2 to 4 bars.

See attached list for details.

Frames WRS, WRF, WRFR6 and WRFF are cable penetration devices.

Frame WR can be used as cable and pipe penetration device.

Service Restrictions
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. All seal types should be installed in accordance with manufacturer's ABS approved installation drawings.

Comments
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2. Installation of watertight and fire-rated deck and bulkhead cable penetrations are to be examined and tested in accordance with 4-8-4/29.15 of ABS Marine Vessel Rules.

3. When requested to be used in watertight bulkheads on passenger ships or special purpose ships, the penetration system has to comply with the requirements given in SOLAS Ch. II -1 Reg. 13.2.3 (2020 Consolidated Edition). 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.

4. Not for use in tank boundaries.

5. In all cases, cable sizes and combinations thereof are typical of marine installations.

6. All seal types should be installed in accordance with manufacturer’s ABS approved installation drawing.

7. After installation, all watertight and fire-rated cable penetrations are to be visually examined. Watertight cable penetrations are to be tested as required by ABS Marine Vessel Rules 3-7-1/Table 1

8. Spare solid insert modules are to be used where cables or pipes are not located.

9. A cable transit Seal system Register is to be provided by the shipbuilder for all watertight cable transits fitted to the vessel. It is to include a marking/identification system, documentation referencing manufacturer manual(s) for each type of cable transit installed, the Type Approval certification for each type of transit system, applicable installation drawings, and recording of each installed transit documenting the as built condition after final inspection in the shipyard. It is to include sections to record any inspection, modification, repair and maintenance.

Notes, Drawings and Documentation
Wallmax Product catalogue, pages: 86.

Test Reports:

1) Report No: 2017CS01761/1 – Standard Fire Test of prototype pipe and/or duct penetrations and/or cable transits incorporated within a bulkhead of A class, issued by Rina Services, dated 25 April 2017, Rev. 0, Pages: 59.

2) Report No: 2017CS01761/2 - Standard Fire Test of cable transits incorporated within an Aluminium Deck of A class, issued by Rina Services, dated 25 April 2017, Rev. -, Pages: 59.

3) Report No; 2017CS01761/4 - Standard Fire Test of prototype pipe and/or duct penetrations and/or cable transits incorporated within a Bulkhead of A class, issued by Rina Services, dated 25 April 2017, Rev. -, Pages: 36.

4) Report No: 2017CS01761/6 – Standard Fire test of prototype cable transits incorporated within a deck of A class, issued by Rina Services, dated 1 August 2017, Rev. 00, Pages: 50.

5) Report No: 2017CS013522/4 - Standard Fire test of Prototype cable transits incorporated within an Aluminium Bulkhead of A class, issued by Rina Services, dated 14 November 2017, Rev.00, Pages: 33.

6) Report No: 2016CS01481/5 – Standard Fire Test of Prototype pipe and/or duct penetrations and/or cable transits incorporated within a bulkhead of A class, issued by Rina Services, dated 16 December 2016, Rev.1, Pages: 45.

7) Report No: 2016CS01481/6 – Standard Fire Test of Prototype pipe and/or duct penetrations and/or cable transits incorporated within a bulkhead of A class, issued by Rina Services, dated 16 December 2016, Rev.1, Pages: 46.

8) Report No: 2016CS01481/1 – Standard Fire test of cable transits incorporated within an aluminium deck of A class, issued by Rina Services, dated 5 February 2016, Rev.-, pages: 35.

9) Report No: 2016CS01481/2 – Standard Fire test of prototype cable transits incorporated within an aluminium deck of A class, issued by Rina Services, dated 5 February 2016, Rev.-, pages: 36.

10) Report No: 2013CS013559/1 – Standard Fire test of prototype cable transits incorporated within an aluminium deck of A class, issued by Rina Services, dated 31 Dec 2013 & 12 Feb 2014, Rev.-, pages: 28.

11) Report No: 2013CS013559/2 – Standard Fire test of prototype cable transits incorporated within an aluminium deck of A class, issued by Rina Services, dated 31 Dec 2013 & 12 Feb 2014, Rev.-, pages: 31.

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 28/Feb/2027 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.

ABS Rules
2022 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2022 Rules for Building and Classing Marine Vessel Rules: 4-8-4/21.13.1;

2022 Rules for Conditions of Classification – Light and High Speed Craft: 1-1-4/11.9, 1-1-A2, 1-1-A3, which covers the following:

2022 Rules for Building and Classing High Speed Craft Rules: 4-6-3/5.13.1

2022 Rules for Conditions of Classification – Offshore Units and Structures: 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Unit Rules: 4-3-3/5.13.1;

2022 Rules for Building and Classing Facilities on Offshore Installations: 3-8/9.13, 4-8/9.13;

International Standards
SOLAS Ch.II-2. Reg.9.3.1 (2020 Consolidated Edition);

IMO 2010 FTP Code (2012 Edition), Annex 1, Part 3.

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 09-May-2022 3:14

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

