



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 24-MAR-2024. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

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.

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.

Product Name: Window Wiper

Model Name(s): Straight Line Wipers with external motors Type PG-Ext (single arm) and Type PGD-Ext (double arm).

Presented to:

SPEICH S.R.L.
VIA G. ADAMOLI, 443
16141
Italy

Intended Service:

Straight Line Wipers for Marine Applications.

Description:

Single and double arm - external motor. See attachment for details.

Tier:

3

Ratings:

Power supply: 110-230Vac. Ambient Temperature Rating: - 25 °C to + 45 °C

Service Restrictions:

1) Unit Certification is not required for this product. 2) If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. 3) Wipers are not suitable for hazardous area installations as defined in 4-8-3/13 of the Marine Vessels Rules. 4) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

Comments:

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

Notes / Documentation:

Drawing No.EM.PGE-2011.02-E "Installation and Maintenance Manual" dated 2001 Biamino e Figli S.p.A. Tests Reports No.0155/0156/0157 dated 09 June 2011 and 13 June 2011. EMC S.r.l. Test Report No.0701/2011 dated 25 July 2011. BSH Certificate No.691 dated 15 March 2011 for Safe Distance from the Magnetic Compass. Speich S.r.l. Thermal Analysis Report dated 19/03/2013 Speich S.r.l.

Salt Water Tests Report dated 05/11/2012 Speich S.r.l. Complete System Durability Tests Report dated 04/04/2011 Speich S.r.l. Wiper Blades Durability Tests Report dated 05/11/2012 Speich S.r.l. Temperature Tests Report dated 20/10/2011 Biamino e Figli S.p.A. Surge Tests Report No.0157 dated 15/03/2013 Biamino e Figli S.p.A. PQT Tests Report No.0158 dated 15/03/2013 EMC Tests Report No.0403/2013 dated 24/04/2013 Biamino e Figli S.p.A. Burst Tests Report No.0156 dated 15/03/2013 Bundeswehr Technical Center Salt Spray Tests Report No. WTD 71-330-130 dated 18/02/2013 Speich S.r.l. Temperature Tests Report dated 19/10/2011 Dakks Vibration & Mechanical Shock Tests Report No.13-4963 dated 25/02/2013 Speich S.r.l. Dry heat Test Report No. TR-190307-00 dated 07/03/2019 Speich S.r.l. Inclination Test Report No. TR-190307-01 dated 07/03/2019

Term of Validity:

This Product Design Assessment (PDA) Certificate 19-GE1845554-PDA, dated 25/Mar/2019 remains valid until 24/Mar/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules:

2019 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2019 Steel Vessels Rules 4-9-8/13 2019 Offshore Support Vessels Rules, 4-9-8/13 2019 Steel Vessels Under 90 Meters (295 Feet) in Length Rules, 4-7-2/15 2019 Marine Vessels Rules 4-9-9/13

National Standards:

International Standards:

IEC 60945 (2002) ISO 17899 (2004) ISO 25862 (2009) Annex E and F.

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	19-GE1845554-PDA	25-MAR-2019	24-MAR-2024

ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.