



## ***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 26/OCT/2015. 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 05/JUN/2018 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  
GENOVA  
Italy

<b>Intended Service:</b>	Straight Line Wipers for Marine Applications.
<b>Description:</b>	Single and double arm - external motor. See attachment.
<b>Ratings:</b>	Power supply: 110-230Vac.
<b>Service Restrictions:</b>	Unit Certification is not required for this product.
<b>Comments:</b>	Wipers are not suitable for hazardous area installations as defined in 4-8-3/13 of the Rules.
<b>Notes / Documentation:</b>	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. 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. Thermal Analysis dated 19/03/2013 Salt Water Tests dated 05/11/2012 Complete System Durability Tests dated 04/04/2011 Wiper Blades Durability Tests dated 05/11/2012 Temperature Tests dated 20/10/2011 Surge Tests No.0157 dated 15/03/2013 PQT Tests No.0158 dated 15/03/2013 EMC Tests No.0403/2013 dated 24/04/2013 Burst Tests No.0156 dated 15/03/2013 Salt Spray Tests No. WTD 71-330-130 dated 18/02/2013 Temperature Tests dated 19/10/2011 Vibration & Mechanical Shock

Tests No.13-4963 dated 25/02/2013

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 11-GE788865-1-PDA, dated 06/Jun/2013 remains valid until 05/Jun/2018 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:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2013 Steel Vessel Rules 1-1-4/7.7, 1-1 Appendix 3 and 4-9-7/13.

**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	11-GE788865-1-PDA	06/JUN/2013	05/JUN/2018



**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.