



Confirmation of Product Type Approval

Company Name: B. HEPWORTH AND CO LTD

Address: HEPWORTH MARINE AND WYNN MARINE LTD, 2-4 MERSE ROAD, NORTH MOONS MOAT, REDDITCH, United Kingdom, B98 9HL

Product: Window Wiper

Model(s): Wynn Straight line wipers Type D MK V & Type C.

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2117093-PDA	28-APR-2021	27-APR-2026
Manufacturing Assessment (MA)	16-LD3149038	01-JUN-2016	31-MAY-2021
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Straight Line Wipers for use on ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description

Straightline Wipers for Marine Applications. (data sheet attached).

Ratings

Type D MkV - Externally mounted motor. Motor housing fully sealed to IP67.

Type C - Internally mounted motor, IP 23.

Input voltage: 24VDC or 115/230 VAC single phase or three phase

-Single

Stroke: Minimum - 305mm, Maximum - 2260mm

Blade: Maximum - 2000mm

Arm: Maximum - 1500mm

-Twin

Stroke: Minimum - 585mm, Maximum - 3220mm

Blade: Maximum - 1000mm

Arm: Maximum - 1000mm

Wipe Speed: fast/slow : 1.4m per second / 0.7m per second

AC Motor: Induction type: 100, 115, 230v

DC Motor.: Permanent magnet; 24v

3-PH Motor: Fast speed / slow speed / intermittent

1-PH and DC: Normal speed / intermittent 8000 motor 3 speed 0.7/1.1/1.4n/sec

De-icing heater: 200 watts per meter

Park Sensor: Reed switch

Spray Nozzles: Window wipers with a stroke of 610mm up to 1015mm have one wash nozzle fitted in the center of the wiper. Single arm wipers with strokes of 1040mm and longer have two nozzles.

Mounting: Above, below or vertical on the window.

-Controllers:

Wynn Marine series 1000 wiper controller:

- Fast and continuous speed mode
- Automatic self-parking
- Intermittent mode with 4 pre-set delay times (4-20 sec)
- Group push button screen wash
- Auto shut-off safety feature
- Compact size for easy installation

Wynn Marine Series 2000 Wiper Controller.

- Individual and group control
- One speed operation (1ph & DC)
- Fast and Slow Speed Operation (3 Phase AC only)
- Automatic self-parking
- Intermittent mode with 15 delay positions (4-32 sec)
- Group heater switch
- Screen wash switch giving wash-wipe facility
- Wash wipe / air purge option
- Synchronised group wiping in intermittent mode

Wynn Marine Series 8000 Wiper Controller.

- Small size control panel – even for complex systems
- Individual and group control
- Multi-speed operation
- Automatic self-parking
- Variable intermittent modes
- Separate control of wiper de-icing heaters, heated windows etc.
- Plug and play connectivity
- Wash Wipe/Air Purge option
- Illuminated control panel with dimming facility

Service Restrictions

1. Unit Certification is not required for this product.
2. 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.
3. Wipers are not suitable for hazardous area installations as defined in 4-8-3/13 of Marine Vessels Rules.

Comments

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

Notes, Drawings and Documentation

- Drawing No. 08A489 CR, EMC test report for the Wynn marine DMK5 straight line wiper, Revision: 1,
- Drawing No. 09A029 CR, EMC test report for the wynn marine type c straight line wiper, Revision: 1,
- Drawing No. 1424, Environmental test report, Revision: C,
- Drawing No. 4816, Compass AQL EMC Test Report, Revision: 1,
- Drawing No. HURSLEY EMC Test Report July 2008_08J049 CR, EMC Test report for the Wynn Marine control box, with control panel & DMK5 wiper, Revision: 1,
- Drawing No. Test record sheet for Type C, Test record sheet for Type C, Revision: -,
- Drawing No. Test record sheet for Type D, Test record sheet for Type D, Revision: -,
- Drawing No. Type C No Control standard-i7, installation & operation manual Type C straight line wiper without control system, Revision: 7,
- Drawing No. Type D mkV No Control standard-i6, Installation and operation manual type D MKV straight line wiper without control system, Revision: 6,
- Drawing No. Type-C-Tech-sheet, Wynn straight line wiper type C, Revision: 4,
- Drawing No. Type-D-Tech-sheet, Wynn straight line wiper type D MK V, Revision: 4,
- Drawing No. dnv test report signed 2009 iss5 a, dnv test report signed 2009 iss5 a, Revision: 5,

Drawing No. dnv test report signed 2009 iss5 b, dnv test report signed 2009 iss5 b, Revision: 5,

Drawing No. Online application - PDA revalidation 16-LD1504245-PDA, Revision: -,

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 27/Apr/2026 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

Rules for Conditions of Classification, Part I - 2021 - 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2021 Marine Vessels Rules: 4-8-3/Table 2, 4-9-9/13

2021 Steel Barge Rules: 4-1-3/5.7

2021 Steel Vessels for Service on Rivers and Intracoastal Waterways: 4-5-3/Table 1

Rules for Conditions of Classifications -High-Speed Craft: 2021 - 1-1-4/11.9, 1-1-A2, 1-1-A3, which covers the following:

2021 High-Speed Craft Rules: 4-6-1/Table 2 & 3

Rules for Conditions of Classification, Part I - 2021 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2021 Mobile Offshore Units Rules: 4-3-3/Table 1

2021 Facilities on Offshore Installations: 3-6/Table 1A & 1B

International Standards

IEC 60945 Ed. 4: 2002

EU-MED Standards

NA

National Standards

NA

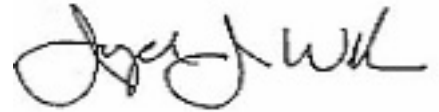
Government Standards

NA

Other Standards

NA





Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 04-May-2021 3:33

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.