



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

21-2117103-PDA
28-Apr-2021
27-Apr-2026
Gdynia Engineering Department

CERTIFICATE OF Product Design Assessment

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

B. HEPWORTH AND CO LTD

located at

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

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: **Window Wiper**

Model: **Heavy and Medium Duty Pantograph and Pendulum marine windscreen wiper systems**

Endorsements:

Tier: **3 - Type Approved, unit certification not required**

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.

American Bureau Of Shipping

A. Pytkowski
Arkadiusz Pytkowski, 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)

TERMS & CONDITIONS OF ABS DESIGN ASSESSMENT

1. AGREEMENT

Unless otherwise agreed in writing, all services rendered and certificates issued are governed by the terms and conditions of the "Request for Product Type Approval and Agreement" (the "Agreement") which are hereby incorporated by reference.

2. REPRESENTATIONS AS TO DESIGN ASSESSMENT

A certificate of design assessment represents that the product design meets the ABS, statutory, industrial or manufacturer's standard described on the reverse hereof and that the manufacturer has established a systematic quality monitoring system sufficient to show its capacity to consistently manufacture a product which meets the designated standards. ABS is not a substitute for the independent judgment of professional designers or engineers nor a substitute for the quality control procedures of constructors, steel makers, suppliers, manufacturers and vendors of marine structures, materials, machinery or equipment. ABS represents solely to the manufacturer or other client of ABS that it will use due diligence in developing Rules, Guides and standards and in surveying the plant as called for by ABS criteria for type approval.

3. SUSPENSION OF CERTIFICATION

Any of the following events will cause immediate suspension of the certificate of design assessment unless the change is submitted to ABS for a new review and audit.

- a) Redesign of the product or products covered by this certificate;
- b) Change in production methods;
- c) Substantial change in management organization;
- d) Substantial change in frequency or curriculum for personnel training;
- e) Refusing access to ABS personnel for periodic or annual audits;
- f) Failure to correct a non-compliance identified during an audit or in service;
- g) Failure to pay ABS fees.

4. VALIDITY

The validity, applicability and interpretation of a certificate issued under the terms of or in contemplation of ABS Type Approval are governed by the Rules, Guides and standards of American Bureau of Shipping which shall remain the sole judge thereof. Nothing contained in this certificate or in

any report issued in contemplation of this certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied, nor create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation other than the parties hereto, any right, remedy, or claim hereunder or under any of the provisions herein contained; all of the provisions hereof are for the sole and exclusive benefit of the parties hereto.

5. LIMITATION

ABS makes no representations beyond those contained herein and in the provisions of the Agreement regarding its reports, statements, plan review, surveys, certificates or other services.

6. HOLD HARMLESS

The party to whom this certificate is issued, and his assignee and successor in interest, agree to indemnify and hold harmless ABS from and against any and all claims, demands, lawsuits, or actions for damages, including legal fees, to persons or other legal entities and property, tangible, intangible, or otherwise which may be brought against ABS incidental to, arising out of or in connection with the work done, services performed or material to be furnished under this certificate, except for those claims caused solely and completely by the negligence of ABS, its agents, employees, officers, directors or subcontractors.

7. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of this agreement shall be put to arbitration in the City of New York pursuant to the laws relating to the arbitration there in force, before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Client, and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or difference under this Agreement for hearing and determination. The arbitration is to be conducted in accordance with the rules of the Society of Maritime Arbitrators, Inc. The arbitrators may grant any relief, other than punitive damages,

which they, or a majority of them, deem just and equitable and within the scope of the agreement of the parties, including, but not limited to, specific performance. Awards made in pursuance to this clause may include costs including a reasonable allowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and client hereby mutually waive any and all claims to punitive damages in any forum.

Client shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS's work in connection with this Agreement and shall afford ABS an opportunity, at ABS's sole option, to participate in the arbitration.

8. TIME BAR TO LEGAL ACTION

Any statutes of limitation notwithstanding, Client expressly agrees for itself and its affiliated companies that its right to bring or to assert against ABS any and all claims, demands or proceedings whether in arbitration or otherwise shall be waived unless (a) notice is received by ABS within thirty (30) days after Client or its affiliates had notice of or should reasonably have been expected to have had notice of the basis for such claims; and (b) arbitration or legal proceedings, if any, based on such claims or demands of whatever nature are commenced within one (1) year of the date of such notice to ABS.

9. LIMITATION OF LIABILITY

The combined liability of American Bureau of Shipping, its officers, employees, agents or subcontractors for any loss, claim, or damage arising from negligent performance or non-performance of any services under this Agreement, of from breach of any implied or express warranty of workmanlike performance in connection with the services, or from any other reason, to any person, corporation, partnership, business entity, sovereign, country or nation, shall be limited to the greater of a) \$100,000 or b) an amount equal to ten times the sum actually paid for the services alleged to be deficient.

The limitation of liability may be increased up to an amount twenty-five times that sum paid for services upon receipt of Client's written request at or before the time of performance of service and upon payment by Client of an additional fee of \$10.00 for every \$1,000.00 increase in the limitation.

B. HEPWORTH AND CO LTD

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Email: general@b-hepworth.com

Web: www.b-hepworth.com

Tier: 3 - Type Approved, unit certification not required

Product: Window Wiper

Model: Heavy and Medium Duty Pantograph and Pendulum marine windscreen wiper systems

Endorsements:

Intended Service:

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

Description:

Pantograph and pendulum window wiper, single and twin blades. Specifications/data sheet as per attachment.

Rating:

Standard Details: 2 Speed; Self Parking; Insulated Earth Return; 12V and 24V DC for 20 Nm, 50 Nm & 80 Nm or 12V, 24V, 72V 110V DC, 110V- 220V AC for 70 Nm, 100 Nm

20Nm/30Nm Medium duty window wiper.

Pantograph Arms Length: 12" to 24" (310mm to 610mm) nom

Pendulum Arms Lengths: 12" to 28" (310mm to 710mm) nom

Blade lengths: 12" to 24" (310mm to 610mm) nom

Angles of Arc - Variable

50Nm Heavy duty window wiper

Pantograph Arms Length: 12" to 34" (310mm to 860mm) nom

Pendulum Arms Lengths: 12" to 34" (310mm to 860mm) nom

Blade lengths: 12" to 28" (310mm to 710mm) nom or 32" (810mm), nom

70Nm & 80Nm Extra heavy duty window wiper.

Pantograph Arms Length: 24" to 60" (610mm to 1525mm) nom

Pendulum Arms Lengths: 24" to 60" (610mm to 1525mm) nom

Blade lengths: 12" to 28" (310mm to 710mm) nom or 32" (810mm), 36" (915mm) & 39" (1000mm)

100Nm Extra heavy duty window wiper.

Pantograph Arms Length: 24" to 72" (610mm to 1830mm) nom

Pendulum Arms Lengths: 24" to 72" (610mm to 1830mm) nom

Blade lengths: 12" to 28" (310mm to 710mm) nom or 32" (810mm), 36" (915mm), 39" (1000mm)

Double blade configuration up to 1500mm

110Nm Extra heavy duty window wiper.

Pantograph Arms Length: 24" to 89" (610mm to 2500mm) nom

Pendulum Arms Lengths: 24" to 72" (610mm to 1830mm) nom

Blade lengths: 12" to 28" (310mm to 710mm) nom or 32" (810mm), 36" (915mm), 39" (1000mm)

Double blade configuration up to 1500mm

Operated by various controls including a rotary switch, toggle switch, rocker switch or a multi-speed/function control system.

Full detail of products is at the attached document "Products datasheet".

Service Restriction:

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.

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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/Drawing/Documentation:

Drawing No. 100Nm, 100Nm extra heavy duty window wiper, Revision: 2,

Drawing No. 110Nm, Extra heavy duty window wiper, Revision: -,

Drawing No. 20Nm, 20Nm Medium duty window wiper, Revision: 2,

Drawing No. 50Nm, Heavy Duty Window Wiper, Revision: -,

Drawing No. 70Nm, 70Nm extra heavy duty window wiper, Revision: 2,

Drawing No. 80Nm, 80Nm extra heavy duty window wiper, Revision: 2,

Drawing No. On-line application - PDA revalidation 16-LD1504247-PDA, Revision: -,

Terms of Validity:

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STANDARDS**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

National:

NA

International:

NA

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Government:

NA

EUMED:

NA

OTHERS:

Manufacturers Standards