



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

21-2112059-PDA
29-Apr-2021
28-Apr-2026
Houston SED Structures -
Commercial

CERTIFICATE OF Product Design Assessment

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

BAIER MARINE COMPANY, INC.

located at

**ENGINEERING AND GENERAL OPERATIONS, 2920 AIRWAY
AVENUE, COSTA MESA, CA, United States, 92626**

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: Hatch Cover
Model: BFHQ, BFHHQ and BFHLP
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 28/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

Suresh K Pisini
Suresh Kumar Pisini, Engineer/Consultant

Suresh K Pisini
Managing Principal Engineer
SED Houston

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)

BAIER MARINE COMPANY
ENGINEERING AND GENERAL OPERATIONS
2920 AIRWAY AVENUE
COSTA MESA CA
United States 92626
Telephone: TOLL FREE: (800) 455-3917 DIRECT: (206) 709-1500
Fax: (206) 632-2441
Email: sales@baiermarine.com
Web: www.baiermarine.com

Tier: 2 - PDA Issued

Product: Hatch Cover
Model: BFHQ, BFHHQ and BFHLP
Endorsements:

Intended Service:
Marine & Offshore Application - For Quick Acting Watertight Hatch Assemblies.

Description:
BFH Quick Acting Watertight Round, Square and Oval Aluminum Hatches, with a 4-dog, center cam actuation by a Quick Acting T-Handle. Covers are of Cast Aluminum, and Deck Rings are of Cast Steel or Cast Aluminum. V-Groove gasket forms a Watertight Seal between the Deck Ring and Hatch Cover Edge Ring. BFHQ, BFHHQ, and BFHLP clear openings are 20" round, 15" x 24" oval and 24"x24" square. Cover configuration is either lift-out, low profile or hinged.

Rating:
Load Rating in Head of Water (top side of Hatch only):
20" Round, Aluminum Cover (28 ft, 8.53 m);
15"x24" Oval, Aluminum Cover (28 ft, 8.53 m);
24"x24" Square, Aluminum Cover (20 ft, 6.09 m).

Service Restriction:

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. This product is NOT to be installed on the exposed fore deck of vessels over 80 meter (263 ft) in length L (L is the scantling length of a ship), within the forward 0.25L, where the deck in way of the hatch is less than 0.1L or 22 meter (72.2 ft) above the summer load line, whichever is less, as per ABS Marine Vessels Rules 3-2-15/13. Aluminum covers are not allowed on cargo decks as per ABS Marine Vessels Rules 3-2-15/7.1. These hatches are NOT for use in watertight bulkheads, internal decks and external openings below damage waterline (see Marine Vessels Rules 3-2-9, 3-2-15/17). When installing a Hatch, consideration is to be given to preventing corrosion arising from using dissimilar metals. Hatch covers are tested as per 3-7-1/Table 1/16 of Marine Vessels Rules, upon installation. Aluminum casting material tests to be in accordance with ABS Rules for Materials and Welding 2-5-10. Steel casting material tests to be in accordance with ABS Rules for Materials and Welding 2-1-5.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. For each installation, drawings are to be submitted for review for verification that the cover Scantlings, Coaming Heights, Materials and Arrangements, including closing arrangements are acceptable for the proposed location. Deck mounting Ring is to be welded on both sides to the Structure in which the Hatch is installed. Hatch installation and operation to be in accordance with the Manufacturer's Instructions.

Notes/Drawing/Documentation:
Drawing No. 04-01-2021, Baier Marine - Declaration of Conformity, Revision: -, Pages: 1

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 28/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).

BAIER MARINE COMPANY
ENGINEERING AND GENERAL OPERATIONS
2920 AIRWAY AVENUE
COSTA MESA CA
United States 92626
Telephone: TOLL FREE: (800) 455-3917 DIRECT: (206) 709-1500
Fax: (206) 632-2441
Email: sales@baiermarine.com
Web: www.baiermarine.com

Tier: 2 - PDA Issued

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.

STANDARDS

ABS Rules:

2021 ABS Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4
2021 ABS Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following
2021 ABS Marine Vessel Rules 3-2-15/21.1
2021 ABS Rules for Building and Classing Mobile Offshore Units 3-3-2/5.3
2021 ABS Materials and Welding Rules 2-5-5

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA