



CERTIFICATE NUMBER
08-HS404092-3-PDA

DATE
21 Jun 2016

ABS TECHNICAL OFFICE
Houston SED Structures -
Commercial

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
BAIER MARINE COMPANY, INC.

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**

This Product Design Assessment (PDA) Certificate 08-HS404092-3-PDA, dated 21/Jun/2016 remains valid until 20/Jun/2021 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.

AMERICAN BUREAU OF SHIPPING

Tim Kimble
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 the terms and conditions as contained in ABS Rules 1-1-A/3.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2013).

BAIER MARINE COMPANY
ENGINEERING AND GENERAL OPERATIONS
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Web: www.baiermarine.com

Tier: 2 - PDA Issued

Product: Hatch Cover
Model: BFHQ, BFHHQ and BFHLP

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:
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.

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 Steel Vessels Rules 3-2-15/14 and SV Rules (90m) 3-2-12/14. These hatches are NOT for use in watertight bulkheads, internal decks and external openings below damage waterline (see Steel Vessels Rules 3-2-9, 3-2-15/17 and Steel Vessels Rules (90m) 3-2-7). 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 Steel Vessels Rules and 3-7-1/Table 1/16 of Steel Vessels Rules (90m), 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:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 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:
Dwg. No. 08863-104B Rev. B. HATCH ASSY, 20" QA-AL-HINGED
Dwg. No. 08863-104A Rev. C. HATCH ASSY, 20" QA-AL-HINGED
Dwg. No. 08864-105A Rev. F. HATCH ASSY, 20" QA-AL-DR
Dwg. No. 08864-105B Rev. E. HATCH ASSY, 20" QA ALUM-STL
Dwg. No. 08863-115B Rev. B. HATCH ASSY, 15x24 QA HINGE AL
Dwg. No. 08863-115A Rev. A. HATCH ASSY, 15x24 QA HINGE AL
Dwg. No. 08863-141A Rev. B. HATCH ASSY, 24 X 24 QA
Dwg. No. 08863-141B Rev. B. HATCH ASSY, 24 X 24 QAHS
Dwg. No. 08864-101B Rev. D. HATCH ASSY, 15x24 QA STL

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Dwg. No. 08864-101A Rev. F. HATCH ASSY, QA 15x24 AL-AL
Dwg. No. 08864-110A Rev. C. COVER ASSY, CAM TYPE F 15 X 24 ALUM W/T-HANDLE
Dwg. No. 08864-141B Rev. C. HATCH ASSY, 24 X 24 QA
Dwg. No. 08864-141A Rev. C. HATCH ASSY, 24 X 24 QA
Dwg. No. 08864-151A Rev. B. HATCH ASSY, LOW-PRO, 15 X 24 ALUM
Dwg. No. 08864-161A Rev. A. HATCH ASSY, 20 LP-ALUM
Dwg. No. 08864-151B Rev. B. HATCH ASSY, LOW-PRO, 15 X 24 STL
Dwg. No. 08864-161B Rev. A. HATCH ASSY, 20 LP-STL
Dwg. No. 08864-171A Rev. A. HATCH ASSY, 24 X 24 LP-QA, ALUM
Dwg. No. 08864-171B Rev. A. HATCH ASSY, 24 X 24 LP-QA, ALUM, STEEL DECK RING

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2016 Steel Vessel Rules 3-2-15/9;
2016 Steel Vessels Rule (90M) 3-2-12/9;
2016 Materials and Welding Rules 2-5-5.
2016 High-Speed Craft 1-1-4/11.9, 1-1-Appendix 2 and 3, 3-2-9;

2016 Mobile Offshore Drilling Units 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-2-5/11;

National:
NA

International:
NA

Government:
NA

EUMED:
NA

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OTHERS:
NA