



CERTIFICATE NUMBER

DATE

08-HS404092-2-PDA

04 April 2012

ABS TECHNICAL OFFICE

Houston SED - Ship Structures

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**BAIER MARINE COMPANY, INC. - COSTA MESA**

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: **Series: BFHQ, BFHHQ, and BFHLP**

This Product Design Assessment (PDA) Certificate 08-HS404092-2-PDA, dated 04/Apr/2012 remains valid until 03/Apr/2017 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

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/3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**BAIER MARINE COMPANY, INC.**

ENGINEERING AND GENERAL OPERATIONS

2920 AIRWAY AVENUE

COSTA MESA

CA 92626

United States

Telephone: TOLL FREE: (800) 455-3917 DIRECT:

(206) 709-1500

Fax: (206) 632-2441

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**Product:** Hatch Cover

**Model:** Series: 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.

**Ratings:**

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 Restrictions:**

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 to be hose-tested as per 3-2-15/9.5 of SV Rules and 3-2-12/11.3.1 of Steel Vessels Rules (90m), upon installation. Aluminum casting material tests to be in accordance with ABS Rules for Building and Classing Aluminum Vessels, 2-5-10. Steel casting material tests to be in accordance with Steel Vessels Rules 2-1-5.

**Comments:**

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 / Drawings / Documentation:**

Supporting Documentation:

Dwg. No. BFHHQTH20A/A:L 08863-104A;

Dwg. No. BFHHQTH20A/S:L 08863-104B;

Dwg. No. BFHHQTH15X24A/A:08863-115A;

Dwg. No. BFHHQTH15X24A/S:08863-115B;

Dwg. No. BFHQTH15X24A/A:: 08864-101A;

Dwg. No. BFHQTH15X24A/S:: 08864-101B;

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Dwg. No. BFHQTH20A/A:A08864-105A;

Dwg. No. BFHQTH20A/S:A08864-105B;

Dwg. No. BFHQTH15X24A-F:□08864-110A;

Dwg. No. BFHLP15X24A/A:: 08864-151A;

Dwg. No. BFHLP15X24A/S:: 08864-151B;

Dwg. No. BFHLP20A/A:□08864-161A;

Dwg. No. BFHLP20A/S:□08864-161B;

Dwg. No. BFHHQTH24X24A/A:08863-141A;

Dwg. No. BFHHQTH24X24A/S:08863-141B;

Dwg. No. BFHQTH24X24A/A:: 08864-141A;

Dwg. No. BFHQTH24X24A/S:: 08864-141B.

**Term of Validity:**

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**STANDARDS**

**ABS Rules:**

2012 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 3-2-15/9; 2012 Steel Vessels Rule (90m) 3-2-12/9; 2012 High-Speed Craft Guide 3-2-9; 1975 Aluminum Vessels Rules 18.9 (Last Updated: Jan-12-2012).

**National:**

NA

**International:**

NA

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

None