



CERTIFICATE NUMBER

DATE

08-HS404092-PDA

11 December 2008

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Hatch, Flush Watertight

MODEL: BFHR 20" Round [Hex-wench or T-handle, cast steel or aluminum cover]; BFHO 15"x24" Oval [Hex-wench or T-handle, cast steel or aluminum cover]; BFHSQ 24"x24" Square [T-handle, aluminum cover].

ABS RULE: 2008 SV Rules 3-2-15/9; 2006 SV Rules (under 90m) 3-2-12/9; 2001 ABS Guide for High-Speed Craft 3/18.9; 1975 Aluminum Vessels Rules 18.9.

OTHER STANDARD: None;

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator

AB258(01/03)

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of American Bureau of Shipping or a statutory, industrial or manufacturer's standards and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without ABS approval will result in this certificate becoming null and void. This certificate is governed by the terms and conditions on the reverse side hereof.

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Company Information	Additional Company/ Plant Detail	Confirmation Of Type Approval
BAIER MARINE COMPANY, INC. ENGINEERING AND GENERAL OPERATIONS 2920 AIRWAY AVENUE COSTA MESA CA 92626 United States Tel (800) 455-3917 Fax (206) 632-2441 Website : http://www.baiermarine.com		This product doesn't have a Confirmation of Type Approval.

Product	Hatch, Flush Watertight
Model	BFHR 20" Round [Hex-wench or T-handle, cast steel or aluminum cover]; BFHO 15"x24" Oval [Hex-wench or T-handle, cast steel or aluminum cover]; BFHSQ 24"x24" Square [T-handle, aluminum cover].
Intended Service	Flush watertight hatch assemblies for marine vessels and offshore installations.
Description	BFH round, oval and square hatches are flush, screw-type watertight hatches, with a stainless steel center-bolt actuated either by a detachable hex-wrench or pop-up recessed T-handle, to engage a strongback. Covers, strongbacks and deck rings are of cast steel or cast aluminum. Hatch cover gasket is a one-piece molded neoprene (Buna-N optional) and forms a watertight seal between the deck ring and hatch cover edge ring. Clear openings are 20" round, 15" x 24" oval, and 24" x 24" square. Cover configuration is either lift-out or hinged.
Ratings	Load rating in head of water (top side of hatch only): BFHR 20" round, steel cover (24.4 ft or 7.44 m), aluminum cover (6.43 ft, 1.96 m); BFHO 15"x24" oval, steel cover (48.7 ft or 14.8 m), aluminum cover (12.9 ft, 3.93 m); BFHSQ 24"x24" square, aluminum cover (6.71 ft, 2.05 m).
Service Restrictions	<p>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.</p> <p>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 SV Rules 3-2-15/14 and SV Rules (under 90m) 3-2-12/14. These hatches are NOT for use in watertight bulkheads, internal decks and external openings below damage waterline (see SV Rules 3-2-9, 3-2-15/17 and SV Rules (under 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 SV Rules (under 90m).</p>
Comments	For each installation, drawings are to be submitted for review for verification that the cover scantlings, 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 and Documentation	This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.
Term Of Validity	This Design Assessment Certificate number 08-HS404092-PDA, dated 11/Dec/2008 will expire on 10/Dec/2013 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.
ABS Rules	2008 SV Rules 3-2-15/9; 2006 SV Rules (under 90m) 3-2-12/9; 2001 ABS Guide for High-Speed Craft 3/18.9; 1975 Aluminum Vessels Rules 18.9.

Other Standards	None
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Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	08-HS404092-PDA	11/DEC/2008	10/DEC/2013