



CERTIFICATE NUMBER

DATE

01-HS211271B-2-PDA

25 October 2011

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
NABRICO MARINE PRODUCTS - GALLATIN

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, Watertight 4-Dog Quick Acting Hatch**

MODEL: **DF-615-2424, DF-615-3030, DF-615-3636**

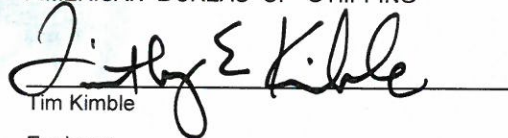
This Product Design Assessment (PDA) Certificate 01-HS211271B-2-PDA, dated 25/Oct/2011 remains valid until 24/Oct/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

NABRICO MARINE PRODUCTS

DIV. OF TRINITY INDUSTRIES, INC.
1250 GATEWAY DR.
GALLATIN
TN 37066
United States
Telephone: 615-442-1300
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Product: Hatch, Watertight 4-Dog Quick Acting Hatch

Model: DF-615-2424, DF-615-3030, DF-615-3636

Intended Service:

Marine and Offshore Installations

Description:

Closure of Openings in Watertight Decks.

Ratings:

24x24x24" and smaller hatches are suitable for a design head of 16.9'; 30x30x24" hatch is suitable for a design head of 18.9'; 36x36x24" hatch is suitable for a design head of 16.6'.

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.

- 1) 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.
- 2) This product is not to be installed on the exposed fore deck within the forward 0.25 L (L is the scantling length of a ship), where the deck in way of the hatch is less than 0.1 L or 22 m (72.2 ft) above the summer load line, whichever is less, per ABS SVR 3-2-15/14.

Comments:

None

Notes / Drawings / Documentation:

Supporting Documentation:

- Dwg. No. 100081 Rev.0, DF-615-24 (24x24) QA Hatch w/ Spring Assist;
- Dwg. No. 100083 Rev.0 , DF-615-24 (30x30) QA Hatch w/ Spring Assist;
- Dwg. No. 100100 Rev.0, DF-615-24 (36x36) QA Hatch w/ Spring Assist;

Term of Validity:

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STANDARDS

ABS Rules:

2011 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 3-2-15/9.1
