



CERTIFICATE NUMBER  
15-HS1349959-PDA

DATE  
30 Apr 2015

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

## **NABRICO MARINE PRODUCTS**

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, Raised Watertight**

Model: **DF-154**

This Product Design Assessment (PDA) Certificate 15-HS1349959-PDA, dated 30/Apr/2015 remains valid until 29/Apr/2020 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.  
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United States 37066  
Telephone: 615-442-1300  
Fax: 615-442-1313  
Email: nabrico@trin.net  
Web: www.nabrico-marine.com

**Tier: 2 - PDA Issued**

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**Product:** Hatch, Raised Watertight

**Model:** DF-154

**Intended Service:**

Watertight Hatch for Marine Vessels and Offshore Installations

**Description:**

Watertight raised multi-bolted (16 bolts) clean out hatch with an 18" diameter opening. Hatch cover and coaming material ASTM A36 or equivalent, 304 stainless steel, thickness 3/8", HH bolt size 5/8-11NC x 2".

**Rating:**

Watertight to a pressure of head of 33.00 FT (10.06 m).

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

The hatch cover and coaming scantlings were reviewed for the pressure head as indicated in rating section. This product shall be installed only in locations where the design "h" does not exceed 33.00 FT (10.06 m). For each installation, drawings are to be submitted for review for verification that the materials, arrangements and coaming height and thickness are acceptable for the proposed location.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Dwg. No. 77240, Rev.4, DF-154-18 Raised Multi-Bolt Hatch;  
Dwg. No. 77264, Rev.0, DF-154-18 (SS) Raised Multi-Bolt Hatch;

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

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Steel Vessels 3-2-15/7.5;  
Steel Vessels Under 90 meters (295 feet) in Length 3-2-12/9.5;  
Offshore Support Vessels (OSV Rules) 3-2-15/7.1;  
Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-2-5/11.

**National:**  
NA

**International:**  
NA

**Government:**  
NA

**EUMED:**  
NA

**OTHERS:**  
NA