



CERTIFICATE NUMBER

11-HS752309-PDA

DATE

28 April 2011

ABS TECHNICAL OFFICE

Houston OED - Equipment

## 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: **Door, Steel Weathertight Door**

MODEL: **DF-600-BW-FL**

This Product Design Assessment (PDA) Certificate 11-HS752309-PDA, dated 28/Apr/2011 remains valid until 27/Apr/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

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United States

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**Product:** Door, Steel Weathertight Door

**Model:** DF-600-BW-FL

**Intended Service:**

Marine, Offshore & Inland Waterway Application

**Description:**

6 Dog Weathertight Steel Door with Portlight

**Ratings:**

Max. design head  $h = 10.9\text{m}$  from the door lower edge per ABS SVR 3-2-11/3.5;

Max. door width x height = 760x1430 mm;

Door plate thickness = 8mm supported by three 50x12 mm FB stiffeners arranged as indicated in Nabrico drawing 104535: one vertical stiffener in the center and two horizontal stiffeners at the hinges;

The max. pressure head is adequate for smaller sized door with the same plating and stiffener arrangement.

**Service Restrictions:**

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.

1. The details of the installation of the door frame on the vessel are excluded from this type of approval. An assessment would be required for each application.
2. This door can not be installed in locations leading to spaces below the bulkhead/freeboard deck, to spaces within enclosed superstructures and deckhouses protecting opening leading to below the bulkhead/freeboard deck unless a fixed steel deadlight cover with the same thickness as the door is provided.
3. This type approval is not applicable for a fire rated boundaries.

**Comments:**

The door as installed is to be weathertight when in the 'closed' position, and is to be capable of being opened and closed under all intended operating conditions, all as demonstrated under actual test, in the presence of the attending ABS Surveyor.

**Notes / Drawings / Documentation:**

Nabrico Drawing 104535, Rev 0 - DF-600-BW-FL-760x1430 (RH) 6 Dog WT Door

**Term of Validity:**

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**STANDARDS**