



CERTIFICATE NUMBER

12-HS913501-PDA

DATE

23 August 2012

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-630-BW**

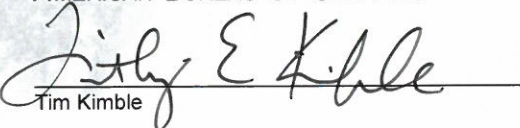
This Product Design Assessment (PDA) Certificate 12-HS913501-PDA, dated 23/Aug/2012 remains valid until 22/Aug/2017 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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/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
Fax: 615-442-1313
Email: nabrico@trin.net

Product: Door, Steel Weathertight Door

Model: DF-630-BW

Intended Service:

Marine, Offshore & Inland Waterway Application

Description:

A weathertight Door manufactured with steel from 8mm cover plate with 6 Dog closure mechanism constructed with stainless steel grade 304 to seal against the elements.

Ratings:

Maximum Design Head $h = 6.926$ m from the door lower edge per ABS SVR 3-2-11/3.5

Maximum Door Width x Height = 36" x 72"

Door Plate Thickness = 5/16" supported by three 2" x 1/2" FB stiffeners arranged as indicated in Nabrico Drawing 151185: one vertical stiffener in the center and two horizontal stiffeners at the hinges

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 type approval is not applicable for a fire rated boundaries.

Comments:

- i) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- ii) Material for steel door to be ABS Grade or equivalent.

Notes / Drawings / Documentation:

Supporting Documentation:

Drawing 151185, Rev 0 - DF-630-BW-3672 (RH) Single Lever Marine Door.

Term of Validity:

This Product Design Assessment (PDA) Certificate 12-HS913501-PDA, dated 23/Aug/2012 remains valid until 22/Aug/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.

STANDARDS

ABS Rules:

2012 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 3-2-11/3.3, 3.5