



CERTIFICATE NUMBER

13-HS1015815-PDA

DATE

29 August 2013

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 Flush Single Bolt Hatch**

MODEL: **DF-540**

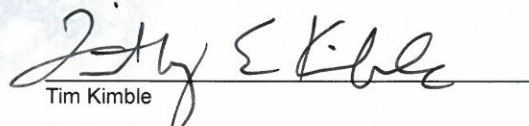
This Product Design Assessment (PDA) Certificate 13-HS1015815-PDA, dated 29/Aug/2013 remains valid until 28/Aug/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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).



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ABS Home → Resources → Equipment & Suppliers Listings → Type Approval Program								Print
→ Type Approval Program		Data Search						
<ul style="list-style-type: none"> → Data Search → Service Providers to Manufacturers(SP) 		Company Information NABRICO MARINE PRODUCTS DIV. OF TRINITY INDUSTRIES, INC. 1250 GATEWAY DR. GALLATIN TN 37066 United States Tel 615-442-1300 Fax 615-442-1313 Email : nabrico@trin.net Website : www.nabrico-marine.com <i>Certificate Number Category Expiry Date</i>			Additional Company/ Plant Detail		Confirmation Of Type Approval This product doesn't have a Confirmation of Type Approval.	
→ ABS Approved Listing								
<ul style="list-style-type: none"> → ABS Approved → Recognized Specialists 								
→ References								
<ul style="list-style-type: none"> → Sample Listing → Disclaimer → Product List 								

Product	Hatch, Watertight Flush Single Bolt Hatch
Model	DF-540
Intended Service	Marine & Offshore Applications - Flush Watertight Cover for Inland Waterway & Ocean going Vessels.
Description	Watertight Single Bolt Hatch Cover used for providing closable access holes in the deck of marine vessels. This particular hatch cover is 21" diameter and made of a 1/2" thick plate. The perimeter of the hatch cover has a perimeter ring with a neoprene gasket which is attached to a 4"x3/8" coaming ring which would be welded to the vessel deck. The material used for the DF-540-1975 load retaining components of the assembly (cover plate, support ring and coaming) is ASTM A36 or equivalent.
Ratings	Watertight to a Pressure of Head of 32 ft (9.754 m).
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. For each installation, drawings are to be submitted for Review and Verification that the Cover Scantlings, Materials and Arrangements, including Closing Arrangements are acceptable for the proposed Location. This product is not to be installed on the exposed Fore Deck within the forward 0.25L (L is the scantling length of a ship), where the Deck in way of the Hatch is less than 0.1L or 22m (72.2 ft) above the Summer Load Line, whichever is less, per ABS SVR 3-2-15/14. These fittings are difficult to maintain gastight, and are not to be in cargo or fuel tanks where lack of gastight seal possess a serious hazard.
Comments	The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
Notes, Drawing and Documentation	Supporting Data: Dwg. No. 93017, Rev.0, DF-540-1975 Single Bolt Hatch; Letter DF-540-1975 - Single Bolt Hatch - "Distributed" Load Capacity Determination. dated 2/10/13;
Term Of Validity	This Product Design Assessment (PDA) Certificate 13-HS1015815-PDA, dated 29/Aug/2013 remains valid until 28/Aug/2018 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.
ABS Rules	2013 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 3-2-15/9.1;
Other Standards	Manufacturer's Standards

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	13-HS1015815-PDA	29/AUG/2013	28/AUG/2018

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