



CERTIFICATE NUMBER

11-HS793900C-PDA

DATE

23 August 2011

ABS TECHNICAL OFFICE

Houston OED - Safety

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
DEANSTEEL MANUFACTURING COMPANY - SAN ANTONIO

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, A-60**

MODEL: **DS A-60 & IMO A-60; see Description for models**

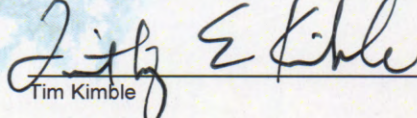
This Product Design Assessment (PDA) Certificate 11-HS793900C-PDA, dated 23/Aug/2011 remains valid until 22/Aug/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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).

Company Information

DEANSTEEL MANUFACTURING COMPANY
111 MERCHANT STREET
SAN ANTONIO
TX 78204
United States
Tel 210-226-8271
Fax 210-224-7910
rcanon@deansteel.com
Website :<http://deansteel.com>

**Additional Company/
Plant Detail**

Email :

**Confirmation Of
Type Approval**

This product doesn't have a
Confirmation of Type Approval.

Product	Door, A-60
Model	DS A-60 & IMO A-60; see Description for models
Intended Service	Marine and Offshore Applications - Marine Doors 1) A-60 Single Leaf Door with Window and Hose Port 2) A-60 Single Leaf Door 3) A-60 Single Door 4) A-60 Single Door 5) A-60 Single Door with Window 6) A-60 Double Leaf Door with Window 7) A-60 Single Weather Tight Blast Door with Window
Description	<p>1) A-60 Single Door, DS A-60 HV Leaf Size: 1,060 x 2,124 mm (41.73" x 83.62") Door: 75 mm (3") Thick, 16 Ga. Steel Skin Window: 254 x 254 mm (10" x 10") Clear Opening, Contraflam 41mm Thick Glazing Locks: Mortised Lock Hinge: Three Mortised Hinges Hose Port: 203 x 203 mm (8" x 8")</p> <p>2) A-60 Single Door, DS A-60 2.5 Leaf Size: 1,060 x 2,124 mm (41.73" x 83.62") Door: 63.5 mm (2.5") Thick, 16 Ga. Steel Skin Locks: Mortised Lock Hinge: Three Mortised Hinges</p> <p>3) A-60 Single Door Leaf Size: 1,057 x 2,124 mm (41.61" x 83.62") Door: 76 mm (3") Thick, 16 Ga. Steel Skin Locks: Mortised Lock Hinge: Three Mortised Hinges</p> <p>4) A-60 Single Door Leaf Size: 1,057 x 2,124 mm (41.61" x 83.62") Door: 76 mm (3") Thick, 16 Ga. Steel Skin Locks: Three Point Latching system Hinge: Three Mortised Hinges</p> <p>5) A-60 Single Door, DS A-60-3-V Leaf Size: 1,060 x 2,124 mm (41.73" x 83.62") Door: 76 mm (3") Thick, 16 Ga. Steel Skin Window: 146 x 551 mm (5.7" x 21.7") Clear Opening</p>

Locks: Mortised Lock
Hinge: Three Mortised Hinges

6) A-60 Double Door
Leaf Size: 1,213 x 2,426 mm (47.75" x 95.51")
Door: 76 mm (3") Thick, 16 Ga. Steel Skin
Window: 127 x 508 mm (5" x 20") Clear Opening, SwissFlam SF60-N2 & Contraflam 60-5-5/N2 76mm Thick Glazing
Locks: Three Point Latching system
Hinge: Four H.D Hinges

7) A-60 Single Door, DS H-60 5.5 Weather Tight Blast Door
Leaf Size: 1,074 x 1,988 mm (42.28" x 78.26")
Door: 140 mm (5.5") Thick, 14 Ga. Steel Skin
Window: 254 x 254 mm (10" x 10") Clear Opening, Pyrostop H-120-20 85mm Thick Glazing
Locks: Three Point Latching system
Hinge: Four H.D Hinges

Ratings	A-60 Fire Integrity Rating, as defined in IMO FTP Code Annex 1, Part3, A.754(18)
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.
Comments	Valid Only at DeanSteel Manufacturing Location: San Antonio, TX, USA. Approval not performed on behalf of any Flag Administration.
Notes, Drawing and Documentation	Identifying Data: SwRI Report Project No. 01.04019.01.303 dated December 2000 (56 shts, Model 1 and 2); SwRI Report Project No. 01.03050.01.317 dated May 2000 (48 shts, Model 3 and 4); SwRI Report Project No. 01.06213.01.001 dated November 2002 (58 shts, Model 6); SwRI Report Project No. 01.04019.01.303a dated June 2001 (60 shts, Model 5); Intertek Report No. 3197091SAT-003 Rev. 1 dated 29 January 2010 (74 shts, Model 7); Intertek Report No. 3197091SAT-004 Rev. 1 dated 29 January 2010; USCG Letter dated 13 October 2000 and 28 August 2001; Drawing No. DS A-111 Rev. 1; Drawing No. DS-A60-3-PR and DS-IMO; Drawing No. 95059-2, DS-A-109, and DS-IMO-A60-S2-F3-B; Drawing No. 95036-8, -15, -16, -17, -18 dated 22 July 2009, and -14 dated 6 October 2009.
Term Of Validity	This Product Design Assessment (PDA) Certificate 11-HS793900C-PDA, dated 23/Aug/2011 remains valid until 22/Aug/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.
ABS Rules	2011 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3
International Standards	IMO Res.A.754(18); IMO FTP Code, Annex 1, Parts 1& 3
Government Standards	US Coast Guard Approval No.164.136/20/0 expires dated 01 March 2016 (Model 1 and 2), 164.136/11/0 expires 01 March 2016 (Model 3, 4 and 5), 164.136/45/0 expires 15 May 2012 (Model 6), 164.136/91/0 expires 04 January 2016

(Model 7).

Model Certificate

PDA

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Issue Date

23/AUG/2011

Expiry Date

22/AUG/2016