CERTIFICATE NUMBER

11-HS685482A-PDA

DATE

01 February 2011

ABS TECHNICAL OFFICE

Houston Ship Engineering (OLD)

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: **IMO A-60 / H-60 Marine Doors**

This Product Design Assessment (PDA) Certificate 11-HS685482A-PDA, dated 01/Feb/2011 remains valid until 31/Jan/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

Engineering Type Approval Co-ordinator

Company Information	Additional Company/ Plant Detail	Confirmation Of Type Approval
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	Email :	This product doesn't have a Confirmation of Type Approval.

Product	Door, A-60
Model	IMO A-60 / H-60 Marine Doors
Intended Service	Marine and Offshore Applications - Marine Doors 1)H-60 Single Leaf Door; 2) DS H-60 Pair 5.5" Door; 3) DS H-60 5.5" Door
Description	1) H-60 Single Leaf Door; Leaf Size: 1206 x 2580 mm; 106mm thickness Lock: DS 3-Point Lock Hinge: HD Continuous (stainless steel) Closer: Dorma HD 8900 Series. 2) DS H-60 Pair 5.5" Door; Leaf Size: 1219 x 2657 mm; 144mm thickness (each) Lock: DS 3-Point Lock Hinge: HD Continuous (stainless steel) Closer: Dorma HD 8900 Series. Widow Opening: 254mm x 254mm (10"x10") (maximum) 3) DS H-60 5.5" Door Leaf Size: 1205 x 2123 mm; 144mm thickness Lock: DS 3-Point Lock Hinge: HD Continuous (stainless steel) Closer: Dorma HD 8900 Series. Widow Opening: 254mm x 254mm (10"x10") (maximum)
Ratings	1) H-60 Single Leaf Door - A-60 Fire Integrity Rating, as defined in IMO FTP Code Annex 1 Part 3; H-60 Class fire rating due to successful testing under hydrocarbon fire exposure in lieu of standard fire exposure. 2) DS H-60 Pair 5.5" Door - A-60 fire integrity rating, as defined in IMO FTP Code Annex 1 Part 3; H-60 Class fire rating due to successful testing under hydrocarbon fire exposure in lieu of standard fire exposure. 3) DS H-60 5.5" Door - A-60 fire integrity rating, as defined in IMO FTP Code Annex 1 Part 3; H-60 Class fire rating due to successful testing under hydrocarbon fire exposure in lieu of standard fire exposure.
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	This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs

Documentation	or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.
Term Of Validity	This Product Design Assessment (PDA) Certificate 11-HS685482A-1-PDA, dated 01/Feb/2011 remains valid until 31/Jan/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, Part 1& 3
Government Standards	Coast Guard Approval No.164.136/87/0 dated 10 June 2010, expires: 29 Oct 2014; No.164.136/89/0 dated 10 June 2010, expires: 10 Jun 2015; No.164.136/81/0 dated 10 June 2010, expires: 02 Jul 2012; (Approved as A-60 class by USCG)

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	11-HS685482A-1-PDA	01/FEB/2011	31/JAN/2016