



CERTIFICATE NUMBER

11-HS685482B-PDA

DATE

01 February 2011

ABS TECHNICAL OFFICE

Houston Ship Engineering

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: **Window, A-60 Fireproof**

MODEL: **IMO A-60 Marine Window**

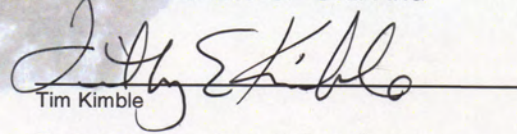
This Product Design Assessment (PDA) Certificate 11-HS685482B-PDA, dated 01/Feb/2011 remains valid until 31/Jan/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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

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 rcaon@deansteel.com Website : http://deansteel.com	Additional Company/ Plant Detail	Confirmation Of Type Approval This product doesn't have a Confirmation of Type Approval.
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Product	Window, A-60 Fireproof
Model	IMO A-60 Marine Window
Intended Service	Marine and Offshore Applications - IMO Marine Windows
Description	Window comprised of Contraflam 39-mm 60-N2 IGU Insulated Glass Maximum visible glass dimensions is 1600mm x 2000 mm Window frame may be bolted or welded to bulkhead per manufacturer's instructions
Ratings	A-60 fire integrity rating, as defined in IMO FTP Code Annex 1 Part 3.
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: DeanSteel Dwg: MW- 001 Bolted Installation & 002 Welded Installation (USCG #164.1377/0) ; SwRI Test Report Prject No: 01.10933.01.706b, dated March 2005;
Term Of Validity	This Product Design Assessment (PDA) Certificate 11-HS685482B-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 Vesels Rules 1-1-4/7.7, 1-1-Appendix 3
International Standards	IMO Res.A.754(18) ; IMO FTP Code, Annex 1, Part 3
Government Standards	U.S. Coast Guard Approval No.164.1377/0 dated 18 July 2010, expires: 18 July 2015

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	11-HS685482B-PDA	01/FEB/2011	31/JAN/2016