



CERTIFICATE NUMBER
16-HS1472818-PDA

DATE
29 Jan 2016

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

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 16-HS1472818-PDA, dated 29/Jan/2016 remains valid until 28/Jan/2021 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/Consultant

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).

DEANSTEEL MANUFACTURING COMPANY

931 S. FLORES ST.

SAN ANTONIO TX

United States 78204-1406

Telephone: 210-226-8271

Fax: 210-224-7910

Email: rcanon@deansteel.com

Web: deansteel.com

Tier: 2 - PDA Issued

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

Rating:

A-60 fire integrity rating, as defined in IMO FTP Code Annex 1 Part 3.

Service Restriction:

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.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Approval not performed on behalf of any Flag Administration.

The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as per tested/approved prototype. (Please see attachment MW-005+MW-006.pdf)

Notes/Drawing/Documentation:

Drawing No. Correspondence, Revalidation Application 24Dec2015, Revision: -, Pages: 1

Drawing No. Correspondence, Dec of Absence of Asbestos 24Dec2015, Revision: -, Pages: 1

Drawing No. Correspondence, Declaration of Conformity 24Dec2015, Revision: -, Pages: 1

Drawing No. Correspondence, Purchase Order 7655, Revision: -, Pages: 1

Drawing No. Email with PDA Client's Confirmation - Windows, Email with PDA Client's Confirmation - Windows, Revision: -, Pages: -

Drawing No. MW-005+MW-006, MW-005+MW-006, Revision: -, Pages: -

Drawing No. Window Cert of Approval 164 137-7-0, Window Cert of Approval 164 137-7-0, Revision: -, Pages: 1

Terms of Validity:

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STANDARDS

ABS Rules:

- Steel Vessel Rules (2016) 1-1-4/7.7
- Steel Vessels Under 90 Meters (295 Feet) in Length (2016) 1-1-1
- Facilities on Offshore Installations (2016) 1-1-1
- Offshore Support Vessels (2016) 1-1-1
- Mobile Offshore Drilling Units Rules (2016) 1-1-1
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2016) 1-1-1
- Bulk Carriers for Service on the Great Lakes (1978, Up-dated April 2008) 1-1
- High-Speed Craft (2016) 1-1-4/11.9 - Steel Barge Rules (2016) 1-1-1
- Rules for Conditions of Classifications (2016) 1-1-4/7.7

National:

NA

International:

IMO 2010 FTP Code (2012 Edition), Annex 1, Part 3, entered into force on 1 July 2012.

Government:

U.S. Coast Guard Approval No.164.137/7/0 dated 18 July 2015, expires: 18 July 2020

EUMED:

NA

OTHERS:

NA