



CERTIFICATE NUMBER
16-HS1542710-PDA

DATE
19 Jul 2016

ABS TECHNICAL OFFICE
Houston SED - Underwater
Systems and Lifting Appl.

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

THE CROSBY GROUP, LLC

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: **Loose Gear, Lifting Device, Shackles**

Model: **209, 210, 2130, 2140, 2150**

This Product Design Assessment (PDA) Certificate 16-HS1542710-PDA, dated 19/Jul/2016 remains valid until 18/Jul/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).

THE CROSBY GROUP

2857 DAWSON ROAD

TULSA OK

United States 74110

Telephone: 918-834-4611 EXT. 322

Fax: 918-832-8833

Email: davidboyle@thecrosbygroup.com

Web: thecrosbygroup.com

Tier: 5 - Unit Certification Required

Product: Loose Gear, Lifting Device, Shackles

Model: 209, 210, 2130, 2140, 2150

Intended Service:

Loose Gear Items. Use on the Lifting Equipment.

Description:

Screw Pin, Bolt Type Shackles.

Rating:

See attached "pdf" file for size, working load, etc.

Service Restriction:

Unit Certification is not required for this product.

1) Prior to installation on a Vessel, MODU or Facility classed by ABS, the PDA is to be reviewed for the actual installation, and the manufacturing and testing both at the manufacturer's facility and after installation on board, is to be witnessed by the attending ABS Surveyor.

2) Articles of loose gear are to have a certificate furnished by the manufacturer.

3) The certificate is to show the distinguishing number or mark applied to the article of gear, description, kind of material, carbon content, date of test, proof load applied, and safe working load.

4) Loose gear certificates are to be inserted in the Register of Lifting Appliances.

5) The safe working load is to be marked on the hoist blocks.

Comments:

Duplicate PDA reside with Crosby -Luebus Manufacturing Co, Inc - LONGVIEW.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

See attached "pdf" file for drawings.

Terms of Validity:

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STANDARDS

ABS Rules:

2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4

2016 ABS Guide for Certification of Lifting Appliances.

2016 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3

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Tier: 5 - Unit Certification Required

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA