

CERTIFICATE NUMBER 15-SQ1366309-PDA

ABS TECHNICAL OFFICE

DATE 06 Jul 2015

# CERTIFICATE OF DESIGN ASSESSMENT

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

# SHANXI TAIGANG STAINLESS STEEL CO. LTD. (LINFEN)

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: Stainless Steel Plate

# Model: Grades : - UNS S31600(316)/S31603(316L), - UNS S32205(2205) and UNS S31803

This Product Design Assessment (PDA) Certificate 15-SQ1366309-PDA, dated 06/Jul/2015 remains valid until 05/Jul/2020 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

Manager

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturers 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).

AB258(0110)

#### SHANXI TAIGANG STAINLESS STEEL CO. LTD. (LINFEN)

QIAODONG STREET NO 3 LINFEN SHANXI China 041000 Telephone: 0357-3092420

Fax: 0357-3092420 Email: kjc@sxlg.com.cn Web: sxlg.com

#### **Tier: 5 - Unit Certification Required**

#### Product: Stainless Steel Plate

Model: Grades : - UNS S31600(316)/S31603(316L), - UNS S32205(2205) and UNS S31803

### Intended Service:

Marine & Offshore Application

#### **Description:**

Manufacturing System for Hot Rolled Austenitic Stainless Steel Plate & Duplex Stainless Steel Plate

#### **Rating:**

Maximum Thickness of Rolled Plate: 40 mm. Steel Making Practice: EAF, AOD, Killed; Steel Casting Process: Continuous Casting. Supply Condition: Solution heat treated.

#### Service Restriction:

Unit Certification is required for the products to be installed in ABS classed vessels or facilities and this type approval does not waive the requirements of unit certification.

#### **Comments:**

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

#### Notes/Drawing/Documentation:

Drawing No. 09-HS511782-PDA, Certificate Drawing No. 13-MMPS-CF&PAC-492, Steel Factory Approval,

#### **Terms of Validity:**

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#### STANDARDS

#### **ABS Rules:**

- Steel Vessel Rules (2015) 1-1-4/7.7, 1-1-A3 and A4
- Steel Vessels Under 90 Meters (295 Feet) in Length (2015) 1-1-4/7.7, 1-1-A3 and A4
- Facilities on Offshore Installations (2015) 1-1-4/9.7, 1-1-A2 and A3
- Offshore Support Vessels (2015) 1-1-4/7.7, 1-1-A3 and A4
- Mobile Offshore Drilling Units Rules (2015) 1-1-4/9.7, 1-1-A2 and A3

# SHANXI TAIGANG STAINLESS STEEL CO. LTD. (LINFEN) **QIAODONG STREET NO 3** LINFEN SHANXI China 041000 Telephone: 0357-3092420 Fax: 0357-3092420 Email: kjc@sxlg.com.cn Web: sxlg.com

**Tier: 5 - Unit Certification Required** 

- Steel Vessels for Service on Rivers and Intracoastal Waterways (2015) 1-1-4/7.7, 1-1-A3 and A4 - (1978) Bulk Carriers for Service on the Great Lakes (Up-dated April 2008)1-1-4/7.7, 1-1-A3 and A4 - High-Speed Craft (2015) 1-1-A2 and A3,1-1-4/11.9 - Steel Barge Rules (2015) 1-1-A3 and A4,1-1-4/7.7

National: ASTM A240 / A240M

International: NA

**Government:** NA

**EUMED:** NA

**OTHERS:** NA



 Refer To:
 JHS /HCC

 File Ref:
 T-8-6

 Task. No.:
 T1366309

 PID.:
 3524620

 Date:
 06 July 2015

Product: Stainless Steel Plate Model: Grades: - UNS S31600(316)/S31603(316L), - UNS S32205(2205) and UNS S31803 Type Approval – Product Design Assessment

Shanxi Taigang Stainless Steel Co., Ltd. No. 2 Jiancaoping, Taiyuan,

Shanxi (030003) <u>P. R. China</u>

Attn: Mr. Yang Fei,

Gentleman:

We have your Application for ABS Type Approval dated 12 May 2015 requesting our renewal of your DA certificate No. 09-HS511782-1-PDA for the subject product. Your details are published on our web site at www.typeapproval.org and can also be downloaded there.

Please note that DA certificate with 09-HS511782-1-PDA has been updated by the DA certificate with No. 15-SQ1366309-PDA.

Our review is based on the standard of ASTM A240 / A240M.

Please be sure that you understand the scope and conditions of the validity of the certificate. An assessment is not an approval. As applicable, the PDA is a generic assessment of materials, components, products or systems for a specific use in compliance with the Rules, Guides and recognized standards. In essence the final approval is given when an Engineer or Surveyor accepts it for a specific user and installation. Therefore, the PDAs are written assuming that the end user and installation of the product is unknown, and that the manufacturer may not apply for Manufacturing Assessment.

In particular we draw your attention to the pages attached to the PDA and the restrictions that may affect its use.

This Product Design Assessment (PDA) is intended for products to be used on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. The use of the product in a non-ABS classed vessel, MODU or facility is to be mutually agreed between your company and your client.

We recommend that you monitor the ABS Rules, Guides and other standards used in the approval. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or specifications.

We do caution you that the use of the ABS logo is copyrighted. However, our "Design Assessed" logo may be used as long as your PDA remains valid.

Our "Product Type Approval" Logo may be used as long as you have an ISO9001 Certified Quality System (or equivalent) and you are conducting regular ABS Manufacturing Assessment audits of your manufacturing process. Should you desire to continue with Product Type Approval, please contact the ABS Office at shanghai, Tel: (86)-021-23270888, Fax: (86)-021-63605391. The office will arrange for the

(.....P.2/-)

**GREATER CHINA DIVISION** 

5TH FLOOR, SILVER TOWER, NO. 85 TAO YUAN ROAD, SHANGHAI, P. R. CHINA, POST CODE: 200021 TEL: 86-21-23270888 FAX: 86-21-63229649(OPERATION)/63605391(ENGINEERING) WEBSITE: www.eagle.org



### To: Shanxi Taigang Stainless Steel Co., Ltd.

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production testing as may be necessary and audit of your quality assurance and control arrangements. To find another office, please use the directory of ABS offices on the ABS Web Site at www.eagle.org. You may also ask the ABS Program staff at Tel. (281) 877-6107, Fax (281) 877-6591, or e-mail absta-programs@eagle.org.

A copy of the artwork for the Design Assessed and Type Approved logos may be requested from our email address absta-progams@eagle.org. Please be aware that both logos are not to be used at the same time. For a copy of the art work and detailed guidance on their use, please contact absta-programs@eagle.org.

We have received your declaration stating that the materials in the requested assessment are free from Asbestos. We have also received your Declaration of Conformity stating that there have been no modifications of the product from previous design assessment.

An invoice to cover the cost of the design assessment phase of the type approval process will be forwarded to you separately.

Thank you for considering ABS for your certification needs. If you should have any comments relative to the scope and conditions of the assessment of your product, or if we can be of any further assistance; please do not hesitate to contact Zheng Wang at 86-21-23270843 or the undersigned at 86-21-23270958. In case of inquiry by a phone or reply by a document, please inform or refer to Task No. & the date of this letter.

By:

Very truly yours, ABS Bill W. Shi Vice President of Engineering Greater China Division

Yi Fei Manager Ship Engineering Department

Encl: as stated cc: ABS Shanghai Opts w/copy of DA certificate

Drawing ListEngineering Office:CN Shanghai SED CSubmitter:SHANXI TAIGANG STAINLESS STEEL CO., LTD. (401073)Drawing NoRevision NoDrawing Title09-HS511782-PDA0Certificate13-MMPS-CF&PAC-4920Steel factory approval

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