



CERTIFICATE NUMBER
15-LD1248486-PDA

DATE
24 Mar 2015

ABS TECHNICAL OFFICE
London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

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

ARCELORMITTAL TUBULAR PRODUCTS ROMAN SA

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: **Piping System, Seamless Pipes**

Model: **API 5L/ ISO 3183 Gr.B, X42, X52, X56, X60, X65 (PSL1, PSL2); API 5CT/ ISO 11960/ API5B Gr.J55, K55, L80-Type1, N80Q, P110 (PSL1, PSL2 and High Collapse); ASME 53 Gr. B, X42 (PSL1, PSL2); ASME 106 grade B, C (PSL1, PSL2); ASME 333 Gr.6; ASME 335 Gr. P-1, P11, P12, P22; EN 10208-1 Gr. L245 GA, 290GA, L360GA; EN 10208-1 Gr. L245NB, 290NB, L360NB, EN 10216-2 Gr. P265GH**

This Product Design Assessment (PDA) Certificate 15-LD1248486-PDA, dated 24/Mar/2015 remains valid until 23/Mar/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


Nikolaos Vrellos
Engineer



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).

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Tier: 2 - PDA Issued

Product: Piping System and Fittings

Model: API SL X42-52 PSL1-2; API SCT/SB JSS KSS L80-1 N80Q PHO PSL1-2 HC; SA 53 B PSL1- 2; SA106 B C PSL1-2; SA333 6; SA 335 P1 P11 P12 P22; EN 10208-1 L245GA 290GA L360GA; EN 10208-1 L245NB 290NB L360NB; EN 10216-2 P265GH

Intended Service:

Process Piping for Marine and Offshore Application (Oil, steam, Gas, etc.).

Description:

Seamless Steel Pipes in size range of OD: 88.9mm - 508mm x WT 4.5mm-50mm.

Rating:

Pressure/ temperature ratings as per relevant standard and attached table.

Service Restriction:

Unit Certification is required for this product used in Piping Class I & II except for hydraulic piping.

The pipes are not to be used for temperatures above 400 degrees Celsius unless their metallurgical behavior and time dependent strengths are in accordance with national or international codes or standards and that such behavior and strengths are guaranteed by the steel manufacturer.

Ferrous materials used in piping systems operating at lower than -18 degrees Celsius are to have adequate notch toughness properties.

These pipes are not to be used on Gas Carriers cargo piping without prior notice to ABS.

These pipes are not to be used for structural applications without prior notice to ABS.

The installation of mechanical joints is to be in accordance with the manufacturer's assembly instructions.

Comments:

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

Notes/Drawing/Documentation:

Drawing No. API Certificates, Combined API Certificates, Revision: -, Pages: -

Drawing No. Asbestos Declaration, Declaration of the Absence of Asbestos, Revision: -, Pages: 1

Drawing No. Correspondence, Plan Approval Request Form, Revision: -, Pages: -

Drawing No. PDA Request, PDA Request Form- Pipes for Process Application- Signed 11-08-2014, Revision: -, Pages: -

Drawing No. Pipe Testing Pressure, Pipe Hydrostatic Testing Pressure, Revision: -, Pages: 1

Drawing No. Plant Survey, Plant Survey, Revision: 1, Pages: 4

Drawing No. Standard Product Specification, Standard Product Specification- AMTP Roman, Revision: -, Pages: -

Drawing No. Standard Product Specification2, Standard Product Specification - AMTP Roman, Revision: -, Pages: 1

Drawing No. certificates combined, Certificates, Revision: 1, Pages: 6

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Tier: 2 - PDA Issued

Terms of Validity:

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STANDARDS

ABS Rules:

2015 Rules for Building and Classing Steel Vessels 1-1-4/ 7.7, 1-1-A3, 1-1-A4, 2-3-12, 4-6.
2015 Offshore Units and Structure 1-1-4/ 9.7, 1-1-A2, 1-1-A3.
2015 MODU 1-1-4/ 9.7, 1-1-A2, 1-1-A3, 4-2-2/ 5.
2012 Guide for Classification of Drilling Systems (Up-dated Feb 2014) 6/ 7.

National:

NA

International:

API 5L/ ISO 3183, ASTM A53/ASME SA 53, ASTM A106/ASME SA 106, ASTM A333/ASME SA333, EN 10208-1, EN 10208-2, API 5CT/ ISO 11960/ API5B, EN 10216-2.

Government:

NA

EUMED:

NA

OTHERS:

NA