APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00000UT Revision No: 1

DNV·GL

This is to certify:

That ACEROS INOXIDABLES OLARRA, S.A. 1, Larrabarri Bidea, 48180 Loiu, Bizkaia, Spain

is an approved manufacturer of Steelmaking and Rolled Steel Products

in accordance with DNV GL rules for classification – Ships

and the following particulars:

Application area Steelmaking **Products** Rolled bars intended to be machined into components See page 2 Steel type Austenitic stainless, Martensitic stainless Manufacturing method Electric arc furnace **Continuous casting** Deoxidation Killed Max. thickness / diameter See page 2 Heat treatment condition See page2 Including grades according to international standards for Additional approval conditions approved applications, see particulars of the approval

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2019-09-10

This Certificate is valid until **2022-07-31**. DNV GL local station: **Bilbao**

Approval Engineer: Enno Brück



for **DNV GL** Digitally Signed By: Wildhagen, Christian Location: DNV GL Hamburg, Germany Signing Date: 2019-09-11, on behalf of

Thorsten Lohmann Head of Section



Revision: 2018-03

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 Job Id:
 263.11-006441-2

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 AMMM0000UT

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 1

Particulars of the approval

Rolled steel products:

Steel type	Product	Steel making ¹⁾	Max. thickness [mm]	Length [mm]	Supply condition			
Stainless steels acc. To EN 10088-3								
1.4301, 1.4305, 1.4306, 1.4307, 1.4401, 1.4404, 1.4432, 1.4435, 1.4436, 1.4541, 1.4570, 1.4571	Bar	СС	100	19 000	acc. standard			
1.4005, 1.4006, 1.4021, 1.4057, 1.4104 1.4122	Bar	СС	85	19 000	acc. standard			

Semi-finished products

Steel type	Product	Steel making ¹⁾	Max. thickness [mm]	Length [mm]	Supply condition ²⁾
Stainless steels ³⁾	Bar	EAF, CC	100	19 000	AR
Stainless steels ³⁾	Billet, Slabs	EAF, CC	145 x 145	10 000	AC

Remarks:

¹⁾ EAF: electric arc furnace

CC: continuous casting

²⁾ AR: as rolled

AC: as cast

³⁾ Steel grades of stainless steels cover the supply of semi-finished products for materials used for construction of vessels and their equipment. The final processing mill is responsible for ordering steel which complies with their approved chemical composition and enables them to achieve the required mechanical properties