



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000AE
Revision No:
2

This is to certify:

That

Acciaierie Valbruna S.p.A.
Via Volta 4, Bolzano,
Italy

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with

DNV rules for classification – Ships

DNV class programme – DNV-CP-0243 Rolled steel products – non stainless steel

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, Austenitic-ferritic (Duplex) stainless,
	See page 2
Manufacturing method	Electric arc furnace, ingot or continuous casting
Max. diameter	73 mm
Heat treatment condition	See page 2
Additional approval conditions	See page 2

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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2023-02-07**

This Certificate is valid until **2025-12-31**.

DNV local unit: **Venice**

Approval Engineer: **Christian Wildhagen**



for **DNV**

Digitally Signed By: Roehr, Stefan

Location: DNV Hamburg, Germany

Signing Date: 08.02.2023 , on behalf of

Thorsten Lohmann
Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Particulars of the approval

Rolled round bars intended to be machined into components (e.g. as a substitute for forged bars) ^{3) 4)}

Steel type	Product	Steel making ¹⁾	Max. Thickness [mm]	Heat treatment condition ²⁾
Austenitic stainless	Bar	EAF, CC or IC	73	SHT
Martensitic stainless	Bar	EAF, CC or IC	73	QT
22Cr duplex stainless	Bar	EAF, CC or IC	73	SHT
25Cr duplex stainless	Bar	EAF, CC or IC	73	SHT

Remarks:

- 1) EAF: electric arc furnace
 CC: continuous casting
 IC: ingot casting
- 2) SHT: solution heat treated (solution annealed)
 QT: quenched and tempered
- 3) Minimum rolling reduction ratio 6:1
- 4) Sampling, inspection and testing requirements shall be according to Rules for ships Pt.2 Ch.2 Sec.6

Special conditions:

- Including low-temperature service for austenitic stainless steels