



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002VZ
Revision No:
1

This is to certify:

That

Alleima Tube AB
Storgatan 2, 811 81 Sandviken,
Sweden

is an approved manufacturer of
Rolled Steel Products

in accordance with
DNV rules for classification – Ships

and the following particulars:

Application area	Stainless steel
Products	Bars (round, square)
Grades	Austenitic stainless, Ferritic-austenitic (duplex) stainless
Manufacturing method	EAF, AOD, LF, CC or IC, hot forging or hot rolling
Max. thickness/diameter	See page 2
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 **2022-11-02**

for **DNV**

This Certificate is valid until **2024-06-14**.

DNV local unit: **Sweden CMC**

Approval Engineer: **Christian Wildhagen**

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

Austenitic Stainless steel

Grade ³⁾	Product	Steel making ¹⁾	Thickness range [mm]	Heat treatment condition ²⁾
S30400, S30403	Bars (round, square)	EAF, AOD, LF, CC or IC	20 - 450	SHT
S31600, S31603	Bars (round, square)	EAF, AOD, LF, CC or IC	20 - 450	SHT
S31635	Bars (round, square)	EAF, AOD, LF, CC or IC	20 - 450	SHT
S20910	Bars (round, square)	EAF, AOD, LF, CC or IC	75 - 180	SHT

Ferritic-austenitic (duplex) stainless

Grade ³⁾	Product	Steel making ¹⁾	Thickness range [mm]	Heat treatment condition ²⁾
S31803, S32205	Bars (round, square)	EAF, AOD, LF, CC or IC	20 - 300	SHT
S32750, S32760	Bars (round, square)	EAF, AOD, LF, CC or IC	20 - 250	SHT

Remarks:

- 1) EAF: Electric Arc Furnace
 AOD: Argon Oxygen Decarburization
 LF: Ladle Furnace
 CC: Continuous Casting
 IC: Ingot Casting
- 2) SHT: solution heat treated (solution annealed)
- 3) Including equivalent grades to other standards