

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00000XU**Revision No:

This is to certify:

That

Outokumpu Stainless AB 693 81 Degerfors, Sweden

is an approved manufacturer of Rolled Steel Products

in accordance with

DNV rules for classification – Ships DNV rules for classification – Naval vessels

and the following particulars:

Application area Stainless steel,

Non-magnetizable steels

Products Plates
Manufacturing method Hot Rolling
Max. thickness See page 2

Heat treatment condition Solution heat treated

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 2022-02-03	
This Certificate is valid until 2025-01-31.	for DNV
DNV local station: Sweden CMC	
Approval Engineer: Andreas Koch	
	Thorsten Lohmann
	Head of Section

Form code: AM 311 Revision: 2021-03 www.dnv.com Page 1 of 2

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.



263.11-009565-2 Job Id: Certificate No:

AMMM00000XU

Revision No:

Particulars of the approval

Stainless steel

Austenitic Stainless Steel					
Grade	Product	Steelmaking 1) 4)	Max. Thickness (mm)	Heat treatment condition ²⁾	
NV 304 L		EAF, CC	55	SHT	
NV 316 L			60		
NV 316 L N	Plate		55		
NV 317 L	1 late		55		
NV 321			55		
NV 347			55		

Duplex Stainless Steel					
Grade	Product	Steelmaking 1) 4)	Max. Thickness (mm)	Heat treatment condition ²⁾	
UNS S31803		EAF, CC	55	SHT	
UNS S32750	Plate		55		
UNS S32304 ³⁾ UNS S32101 ³⁾	Flate		55		

Non-magnetizable steels					
Grade	Product	Steelmaking 1) 4)	Max. Thickness (mm)	Heat treatment condition ²⁾	
1.3964 acc. to BWB WL 1.3964.1	- Plate	EAF, CC	21	SHT	
1.3964 acc. to BWB WL 1.3964.1		EAF, IC	55	SHT	

Remarks:

- 1) EAF: Electric Arc Furnace; CC: Continuous Casting; IC: Ingot Casting
- 2) SHT: Solution heat treated
- 3)
- Application subject to special plan approval DNV approved pre-material supplier for the relevant steel grades

Form code: AM 311 Revision: 2021-03 www.dnv.com Page 2 of 2