



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001DW
Revision No:
2

This is to certify:

That

Outokumpu Stainless Oy
Terästie, 95490 Tornio,
Finland

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with
DNV rules for classification – Ships

and the following particulars:

Application area Products	Stainless steel Plates and sheets, Coils, Strip
Manufacturing method	Electric Arc Furnace, Argon Oxygen Decarburisation, Continuous Casting
Max. thickness	See page 2
Heat treatment condition	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 **2022-05-11**

for **DNV**

This Certificate is valid until **2025-06-30**.

DNV local station: **Helsinki**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Plates, sheets and strips

Grade	Steelmaking ¹⁾	Max. thickness [mm]	Heat treatment condition ²⁾
NV 304 L	EAF, AOD, CC	12.7	SHT
NV 316 L	EAF, AOD, CC	12.7	SHT
NV 321	EAF, AOD, CC	12.7	SHT

Hot and cold rolled coils (grades according to international standards)

Grade	Standard	Steelmaking ¹⁾	Max. thickness [mm]	Heat treatment condition ²⁾
316Ti	ASTM A240/A240M, ASME SA-240/SA-240M	EAF, AOD, CC	8 (hot rolled), 6 (cold rolled)	SHT
1.4571	EN 10028-7	EAF, AOD, CC	8 (hot rolled), 6 (cold rolled)	SHT
UNS 31655	ASTM A240/A240M	EAF, AOD, CC	8 (hot rolled), 5 (cold rolled)	SHT
1.4420	EN 10028-7	EAF, AOD, CC	8 (hot rolled), 5 (cold rolled)	SHT

Remarks:

- 1) EAF: Electric Arc Furnace
 AOD: Argon Oxygen Decarburisation
 CC: Continuous Casting
- 2) SHT: solution heat treated (solution annealed)