

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001XF**

This is to certify:

That

Outokumpu Stainless Long Products SMACC Europa Link, S9 1TZ, Sheffield, United Kingdom

is an approved manufacturer of **Steelmaking**

in accordance with

DNV GL rules for classification - Ships

and the following particulars:

Application area Steelmaking

Product Semi-finished products for rolling or forging stock

(ingots, slabs, blooms and billets)

Steel type Austenitic stainless,

Austenitic-ferritic (Duplex) stainless,

see page 2

Manufacturing method Electric Arc Furnace,

Argon-Oxygen Decarburising,

Ladle Arc Furnace

Delivery conditions As cast 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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2018-01-16

This Certificate is valid until 2020-06-30.

DNV GL local station: Sheffield

Approval Engineer: Christian Wildhagen



for **DNV GL**Digitally Signed By: Roehr, Stefan

Location: DNV GL Hamburg, Germany Signing Date: 2018-01-16 , on behalf of

Thorsten Lohmann Head of Section



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Job Id: **263.11-003793-2** Certificate No: **AMMM00001XF**

Particulars of the approval

Semi-finished products

Steel type	Grade ³⁾	Product	Casting method ⁾	Delivery condition ²⁾
Austenitic	VL 304 L, VL 316 L, VL 316 L N, VL 317 L, VL 317 L N, VL 321, VL 347	Ingot, Slab, Bloom, Billet	CC or IC	AC, AR
Duplex	UNS 31803, UNS 32750	Ingot, Slab, Bloom, Billet	CC or IC	AC, AR

Remarks:

1) CC: Continuous casting IC: Ingot casting

AR: as rolled AC: as cast

³⁾ Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules

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