

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000175
Revision No:
1

This is to certify:

That

Lucchini RS S.p.A.
Love, BG, Italy

is an approved manufacturer of
Steelmaking

in accordance with
DNV GL rules for classification – Ships
DNVGL-OS-B101 – Metallic materials

and the following particulars:

Application area	Steelmaking
Products	Semi-finished products for rolling or forging stock (ingots)
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Ferritic stainless, Martensitic stainless, 22Cr duplex
Manufacturing method	Electric Arc Furnace, Electroslag Refining Furnace
Deoxidation	Killed
Max. weight	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-12-30**

for **DNV GL**

This Certificate is valid until **2023-01-31**.

DNV GL local station: **Milan**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-007128-2**
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Particulars of the approval

Semi-finished products

Steel type	Product	Steel making ¹⁾	Max weight [kg]	Heat treatment condition ²⁾
Carbon and Carbon-Manganese	Ingot	EAF, ESR, IC	60 000	AC
Alloy	Ingot	EAF, ESR, IC	60 000	AC
Austenitic Stainless	Ingot	EAF, ESR, IC	60 000	AC
Martensitic Stainless	Ingot	EAF, ESR, IC	60 000	AC
Ferritic Stainless	Ingot	EAF, ESR, IC	60 000	AC
22Cr duplex	Ingot	EAF, ESR, IC	60 000	AC

Remarks:

- 1) EAF: Electric Arc Furnace; ESR: Electroslag Refining Furnace; IC: Ingot Casting
- 2) AC: As Cast