

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Stahlwerk Bous GmbH
Saarstrasse 1, 66359, Bous, Saarland, Germany

is an approved manufacturer of
Steelmaking

in accordance with
DNV GL rules for classification – Ships
Offshore Standard DNVGL-OS-B101

and the following particulars:

Product	Semi-finished products; ingots or slabs for rolling and forging stock
Grades	Hull structural steels: Normal strength steels, High strength steels and Extra high strength steels,
Steel types	Carbon and carbon-manganese, Alloy
Steelmaking	Electric arc furnace, Ingot or continuous casting
Deoxidation	Killed

Manufacturer approved by this certificate is 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 **Høvik** on **2017-09-04**

for **DNV GL**

This Certificate is valid until **2020-09-03**.

DNV GL local station: **Essen**

Approval Engineer: **Shylate Mahachi**

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Hanne Anita Hjerpetjønn
Head of Section



Job Id: **263.11-004831-2**
Certificate No: **AMMM00001MX**

Particulars of the approval

Continuously cast semi-finished products

Steel type	Delivery condition ¹⁾	Max. diameter/ thickness [mm]
Carbon and carbon-manganese ²⁾	AC	500
Alloy ²⁾	AC	500
Stainless ²⁾	AC	500

Semi-finished products: Ingots

Steel type	Delivery condition	Max. Weight [kg]
Carbon and carbon-manganese	AC	60 000
Alloy	AC	60 000
Stainless	AC	60 000

Remarks:

- ¹⁾ AC: As-cast
- ²⁾ Maximum dimensions for rectangular cross-section are 430 mm x 320 mm whilst for circular cross-section the maximum diameter is 500 mm.