

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000J5
Revision No:
1

This is to certify:

That

Stahlwerk Annahütte Max Aicher GmbH & Co. KG
Ainring, Germany

is an approved manufacturer of
Semi finished hot rolled steel bars

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Semi-finished products
Products	Rolled bars intended to be machined into components
Steel type	Alloy, see page 2
Manufacturing method	Hot rolling of continuous cast slabs
Max. diameter	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 **2020-02-18**

for **DNV GL**

This Certificate is valid until **2022-04-30**.

DNV GL local station: **Augsburg**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section

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Job Id: **263.11-005273-2**
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Particulars of the approval

Semi-finished rolled round bars intended to be machined into components ^{1) 2)}

Steel type	Product	Max. thickness [mm]	Heat treatment condition ²⁾
Low alloy chromium, chromium-molybdenum and chromium-nickel-molybdenum steel	rolled round bars	50	AR
Boron alloyed steel grades with chemical composition according to DIN EN 10263-4 and DIN EN ISO 683-2 ³⁾	rolled round bars	50	AR

Remarks:

- 1) Minimum rolling reduction ratio 6:1
- 2) Sampling, inspection and testing requirements shall be according to DNVGL-RU-SHIP-Pt2-Ch2-Sec6
- 3) Application of boron alloyed steel grades is subject to special approval