



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB167922XG

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	Steel plates for boilers, pressure vessels and low temperature service
<i>Type</i>	Carbon and Carbon-Manganese, Austenitic stainless, Austenitic-ferritic (duplex) stainless Nickel alloy. Manufacturing method hot and cold forming.
<i>Manufacturer</i>	König + Co. GmbH
<i>Place of manufacture</i>	Obere Industriestraße 24-26 D-57250 Netphen GERMANY
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **HAMBURG** on **July 1, 2022**. This Certificate is valid until **June 30, 2027**



RINA Services S.p.A.
Matthaios Chrysovalantis Symeonidis

This certificate consists of this page and 1 enclosure



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The Approval is valid for the following steel types and manufacturing process.

Steel type			Manufacturing process			
Type	Group acc. to ISO 15608	Exemplary	Cold forming without subsequent heat treatment	Hot forming without subsequent heat treatment	Cold forming followed by heat treatment	Hot forming followed by heat treatment
C and C-Mn grades	1.1	P265GH, P275NH, P275NL1, P295GH, 16Mo3	x	x	x	x
	1.2	S355J2, P355GH, P355NH, P355NL1, P355NL2	x	x	x	x
	1.3	P460NH, P460NL1, P460NL2			x	x
	3.1	S460Q, S690QL			x	x
Alloy steel grades, e.g. Ni-alloy	5.1	13CrMo4-5			x	x
	5.2	10CrMo9-10, 12CrMo9-10, 1.7380			x	x
	6.4	1.4903			x	x
	9.2	12Ni14			x	x
	9.3	X8Ni9	x		x	x
	41	2.4068			x	x
	43	2.4360, 2.4600, 2.4602, 2.4605, 2.4610			x	x
Austenitic steel grades	8.1	1.4301, 1.4306, 1.4307, 1.4404, 1.4435, 1.4541, 1.4571, 1.4311, 1.4315, 304L/304LN, 316L/316LN, 321, 347	x	x	x	x
	8.2	1.4465, 1.4529, 1.4547, 1.4539, 1.4876H	x	x	x	x
Duplex steel	10.1	1.4462, 1.4362, 1.4162, S31803, S32205			x	x
	10.2	1.4410			x	x

Remarks:

Welded repairs to the above mentioned products are not permitted.

General conditions for the approval:

The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.

RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.



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