

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM00001XB
Revision No:
3

This is to certify:

that

Silbitz Guss GmbH
Dr.-Maruschky-Straße 2, 07613 Silbitz,
Germany

is an approved manufacturer of
Steel Castings

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0246 Steel castings

and the following particulars:

Application area	Castings for hull structures and equipment Casting for machinery Castings for boilers, pressure vessels and piping systems
Steel type	Stainless steel castings Carbon and carbon-manganese, Alloy, Austenitic stainless, Martensitic stainless, Ferritic stainless
Casting method	See page 2 Sand casting, Chill casting, see page 2
Max. Weight	10 000 kg
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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2026-08-17**

This Certificate is valid until **2029-11-30**.
DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Christian Wildhagen**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Martin Wenning

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Particulars of the approval

Castings for hull structure and equipment

Steel type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	NV C400UW, NV C440UW, NV C480UW, NV C520UW, NV C560UW, NV C600UW	SC, CC	10 000	N, NT, QT
Alloy	C550AW, C620AW	SC, CC	10 000	NT, QT

Castings for machinery

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	NV C400U, NV C440U, NV C480U, NV C520U, NV C560U, NV C600U	SC, CC	10 000	N, NT, QT
Alloy	C550A, C600A, NV C690A	SC, CC	10 000	NT, QT

Stainless steel castings

Steel type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Austenitic	GX 2 CrNi 18 10 (304L)	SC, CC	10 000	SHT
	GX 5 CrNi 19 9 (304)			
	GX 6 CrNiNb 19 10 (347)			
	GX 2 CrNiMo 19 11 2 (316L)			
	GX 5 CrNiMo 19 11 2 (316)			
	GX 5 CrNiMo 19 11 3 (317)			

Castings for boilers, pressure vessels and piping systems

Steel type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	NV C450H	SC, CC	10 000	N, QT

Steels acc. other standards³⁾

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	Acc. EN 10293 / EN 10213	SC, CC	10 000	N, NT, QT
Alloy	Acc. EN 10293 / EN 10213	SC, CC	10 000	N, NT, QT
Austenitic	Acc. EN 10283 / EN 10213	SC, CC	10 000	SHT
Martensitic	Acc. EN 10283 / EN 10213	SC, CC	10 000	QT
C and C-Mn	GP240GH acc. EN 10213	SC, CC	10 000	N, QT

Remarks:

- 1) SC: Sand Casting
CC: Chill Casting
- 2) SHT: Solution Heat Treated (Solution Annealing)
N: Normalised
QT: Quenched and tempered
NT: Normalised and tempered
- 3) Possible application and certification of any material to classed object is subject to case by case approval