

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000004B
Revision No:
1

This is to certify:

That

Sümer Celik Döküm San. ve Tic. A.S.
Cumhuriyet Mah. Karakaya Sok. No. 11,
Yazıbaşı - TorbaIı 35860 / Izmir,
Turkey

is an approved manufacturer of
Steel Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Castings for hull structures and equipment Castings for machinery Stainless steel castings
Steel type	Carbon and carbon-manganese, Alloy, Martensitic stainless, See page 2
Casting method	Sand casting
Max. weight	See page 2
Max. wall thickness	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 **2019-12-11**

for **DNV GL**

This Certificate is valid until **2022-06-30**.

DNV GL local station: **Istanbul**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-010092-1**
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Particulars of the approval

Castings for hull structure and equipment

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	VL C400UW, VL C440UW, VL C480UW, VL C520UW, VL C560UW, VL C600UW	SC	6 000	350	N, NT, QT
Alloy	VL C550AW, VL C620AW	SC	6 000	350	QT

Castings for machinery

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	VL C400U, VL C440U, VL C480U, VL C520U, VL C560U, VL C600U	SC	6 000	350	N, NT, QT
Alloy	VL C550A, VL C600A, VL C690A	SC	6 000	350	QT

Stainless steel castings

Steel type	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Martensitic	SC	500	350	QT

Steel castings acc. other standards

Steel type	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Steel acc. to EN 10340				
1.6759 ³⁾	SC	6 000	350	QT

Remarks:

- 1) SC: Sand Casting
- 2) N: Normalized
QT: Quenched and tempered
NT: Normalized and tempered
- 3) Incl. equivalent grades in acc. to other standards