

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

VISVANA San. Ith.Ihr.Tic. Ltd. Sti.
Türkoba Mah. Atatürk Cad. No:232/1
Büyükçekmece/İstanbul,
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, Castings for boilers, pressure vessels and piping systems
Steel type	Carbon and carbon-manganese, See page 2
Casting method	Sand casting
Max. weight	500 kg
Max. wall thickness	100 mm
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 **2020-05-26**

for **DNV GL**

This Certificate is valid until **2023-05-25**.

DNV GL local station: **Istanbul**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-010647-1**
Certificate No: **AMMM00002RT**

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	SC	500	100	N

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	SC	500	100	N

Castings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	VL C450H, VL C490H	SC	500	100	N

Remarks:

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