

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Veeyes Alloys Private Limited
Coimbatore, Tamil Nadu, India**

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
Steel type(s)	Casting for machinery Castings for boilers, pressure vessels and piping systems Stainless steel castings
Steel type(s)	Carbon, Carbon-Manganese, Alloy, Austenitic Stainless
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment	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 **2018-04-11**

for **DNV GL**

This Certificate is valid until **2021-04-30**.

DNV GL local station: **Mumbai**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Particulars of the approval

Castings for hull structure and equipment

Steel type	Grade ^{3) 4)}	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Delivery condition ²⁾
C and C-Mn	VL C400UW, VL C440UW, VL C480UW, VL C520UW, VL C560UW, VL C600UW	SC	2 000	120	N, NT
Alloy	C550AW, C620AW	SC	2 000	120	NT ⁵⁾

Castings for machinery

Steel type	Grade ^{3) 4)}	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Delivery condition ²⁾
C and C-Mn	VL C400U, VL C440U, VL C480U, VL C520U, VL C560U, VL C600U	SC	2 000	120	N, NT
Alloy	C550A, C600A, VL C690A	SC	2 000	120	NT ⁵⁾

Castings for boilers, pressure vessels and piping systems

Steel type	Grade ^{3) 4)}	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Delivery condition ²⁾
Carbon, Carbon-manganese	VL C450H	SC	2 000	120	N, NT
	VL C490H	SC	2 000	120	N, NT
Alloy	VL C0.5Mo	SC	2 000	120	NT
	VL C1Cr0.5Mo	SC	2 000	120	NT
	VL C2.25Cr1Mo	SC	2 000	120	NT

Job Id: **263.11-008627-1**
Certificate No: **AMMM0000213**

Stainless steel castings

Steel type	Grade ^{3) 4)}	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Delivery condition ²⁾
Austenitic	GX 2 CrNi 18 10 (304L)	SC	2 000	80	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)				

Remarks:

- 1) SC: Sand Casting
- 2) N: Normalised; NT: Normalised and tempered; SHT: Solution Heat Treated (Solution Annealing)
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Incl. equivalent grades acc. to other standards
- 5) Alloy steel castings shall be quenched and tempered at a temperature of not less than 550°C. Alternatively, they may be supplied in the normalized and tempered condition, in which case the specified mechanical properties shall be agreed with the Society.