

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That
AB Holsbyverken
Vetlanda, Sweden

is an approved manufacturer of
Iron Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Iron type	Grey cast iron, Nodular cast iron
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 **2019-06-03**

This Certificate is valid until **2022-06-02**.

DNV GL local station: **Gothenburg**

Approval Engineer: **Stefan Röhr**



for **DNV GL**

Digitally Signed By: Wildhagen, Christian

Location: DNV GL Hamburg, Germany

Signing Date: 2019-06-04, on behalf of

Thorsten Lohmann
Head of Section



Job Id: **263.11-004401-2**
Certificate No: **AMMM00002J2**

Particulars of the approval

Cast iron

Iron type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Grey	200	SC	1 000	250	AC
	250				
	300				
	350				
Nodular	VL NCI 370				
	VL NCI 400				
	VL NCI 500				
	VL NCI 600				

Remarks:

- 1) SC: Sand casting
- 2) AC: As cast
- 3) Including equivalent grades to other standards