

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

SHW Casting Technologies GmbH & Co. KG
Werk Wasseralfingen
Aalen, Germany

is an approved manufacturer of
Iron Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Iron type(s)	Grey Cast Iron, Nodular Cast Iron
Max. weight	85 000kg
Remarks	See particulars

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 **2017-09-12**

for **DNV GL**

This Certificate is valid until **2020-09-11**.

DNV GL local station: **Augsburg**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section



Job Id: **263.11-003220-4**
Certificate No: **AMMM00001NE**

Particulars of the approval

Cast iron

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition
Grey	200	SC	85 000	-
	250			
	300			
	350			
Nodular	VL NCI-1			
	VL NCI-2			
	VL NCI 370			
	VL NCI 400			
	VL NCI 500			
	VL NCI 600			
	VL NCI 700			
	VL NCI 800			

Remarks:

¹⁾ SC: Sand Casting